

NAVY TRAINING SYSTEM PLAN

FOR THE

**AVIATION DATA MANAGEMENT
AND CONTROL SYSTEM**

N78-NTSP-A-50-0009/A

MARCH 2002

AVIATION DATA MANAGEMENT AND CONTROL SYSTEM

EXECUTIVE SUMMARY

This Navy Training System Plan (NTSP) has been developed to identify the manpower and training requirements associated with the Aviation Data Management And Control System (ADMACS) program. The ADMACS program is an umbrella under which several automated systems will be developed and implemented. The ADMACS program development and implementation is divided into five increments. Each increment is being managed, funded, developed, and tested separately. The five increments for implementation are:

Increment I - ADMACS and Integrated Shipboard Information System (ISIS). The ADMACS is a real-time, redundant, configuration managed, tactical Local Area Network. Through the ADMACS, ISIS provides an electronic data processing and display system. The ADMACS and ISIS are in the Production and Deployment Phase of the Defense Acquisition System (DAS). Initial Operating Capability was achieved in April 2001. The ADMACS and ISIS are operated by Navy personnel in the Air Traffic Controller (AC) rating with Navy Enlisted Classifications (NEC) 6902 and 6903 and other data entry personnel within the Air Department. The ADMACS and ISIS hardware is maintained by Electronic Technicians with NEC 1678. The ADMACS and ISIS software is maintained by Information System Technicians with NEC 2735. All formal initial training requirements have been completed. Informal initial training will be provided at each site during installation. Follow-on operator training for AC personnel is being established at Naval Air Technical Training Center (NATTC) Pensacola, Florida. Operator training for other Air Department personnel will be accomplished through On-the-Job Training (OJT). Follow-on maintenance training will be provided in the form of OJT that addresses unique ADMACS and ISIS equipment and software. An increase to current quantitative operator manpower will not be required. At this point in development, it has not been determined if additional maintenance manpower will be required.

Increment II - Aviation Weapons Information Management System (AWIMS), including the Magazine Arrangement Planning Aid-Computerized (MAPA-C). Through ADMACS, AWIMS will provide improved information management, control, and communications for the Weapons Department. The AWIMS is not funded and has not entered the DAS. The MAPA-C component of the AWIMS is a computer-based graphics planning aid used in support of ordnance movement and weapons storage. Funding for MAPA-C is being provided by the Type Commanders. The MAPA-C is operated by Navy Aviation Ordnanceman assigned to the ship's Weapons Department. The MAPA-C is maintained by the same technicians that maintain the ADMACS and ISIS. Initial operator and maintenance training is provided at each site during installation. Due to the simplicity of the MAPA-C software, no formal follow-on operator training will be developed at this time. However, when the AWIMS program is funded, MAPA-C operator training may be incorporated into the AWIMS training. No additional manpower will be required to support the MAPA-C.

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Increment III - Visual Imaging System for Approach and Landing (VISUAL). The VISUAL is an electro-optical sensor and display system that will provide enhanced images of aircraft in low visibility and night conditions. The VISUAL will provide critical recovery information to the Landing Signal Officer (LSO) via ADMACS. The VISUAL is in the System Development and Demonstration Phase of the DAS. The VISUAL will be operated by Navy and Marine Corps LSOs. The VISUAL will be maintained aboard aircraft carriers by Interior Communications Electricians (IC) with NECs 4743 and 4745. The VISUAL will be maintained aboard amphibious assault ships by ICs with NEC 4779. Initial training will be required for Technical Evaluation (TECHEVAL), Operational Evaluation (OPEVAL), and cadre instructors. Follow-on VISUAL operator training will be incorporated into existing LSO training at the Navy LSO School at Oceana, Virginia; Marine Corps LSO training at Marine Air Group (MAG)-14 Marine Corps Air Station (MCAS) Cherry Point, North Carolina; and MAG-13 MCAS El Toro, California. Follow-on VISUAL maintenance training will be incorporated into existing courses at Service School Command, Great Lakes, Illinois, and NATTC Detachment (DET) Lakehurst, New Jersey. No increase to existing manpower will be required to support the VISUAL.

Increment IV - Advanced Launch and Recovery Control System (ALRCS). The ALRCS will integrate all catapult and arresting gear control, data acquisition, condition-based maintenance, and embedded training functions into a redundant microprocessor-based control system. The ALRCS will use ADMACS to transfer maintenance information from the machinery spaces to the Aircraft Launch and Recovery Maintenance Officer. ALRCS is in the Concept and Technology Development Phase of the DAS. The ALRCS will be operated and maintained by Navy personnel assigned to V-2 Division of the Air Department onboard Nimitz-Class Nuclear Aircraft Carriers. Initial training will be required for TECHEVAL, OPEVAL, and cadre instructor personnel. Follow-on operator and maintenance training will be incorporated into existing training courses at NATTC DET Lakehurst; Naval Air Maintenance Training Unit (NAMTRAU) Norfolk, Virginia; and NAMTRAU North Island, California. The ALRCS maintenance plan identifies potential reductions in maintenance manpower requirements. Upon completion of further manpower analysis, the results will be included in updates to this NTSP.

Increment V - Operations Planning and Information System (OPIS). The OPIS will utilize sensors, displays, signal processing, and digital data communications systems to provide, via ADMACS, modern, high performance, fully integrated aviation workstations throughout the Air Department. The OPIS has not been funded and has not entered the DAS. When more information becomes available it will be added to future updates to this NTSP.

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AVIATION DATA MANAGEMENT AND CONTROL SYSTEM

LIST OF ACRONYMS

| | |
|---------------|---|
| AATCC | Amphibious Air Traffic Control Center |
| ABE | Aviation Boatswain's Mate (Launch and Recovery Equipment) |
| AC | Air Traffic Controller |
| ACDU | Active Duty |
| ADMACS | Aviation Data Management And Control System |
| AIR OPS | Air Operations |
| ALRCS | Advanced Launch and Recovery Control System |
| ALRE | Aircraft Launch and Recovery Equipment |
| ALREMP | ALRE Maintenance Program |
| AO | Aviation Ordnanceman |
| AOB | Average Onboard |
| AOCS | Aviation Ordnance Control Station |
| ATM | Asynchronous Transfer Mode |
| AWIMS | Aviation Weapons Information Management System |
| AWMCS | Aviation Weapons Movement Control Station |
| AZ | Aviation Maintenance Administrationman |
| | |
| BIT | Built-In Test |
| | |
| CATCC | Carrier Air Traffic Control Center |
| CBM-HM | Conditional Based Maintenance and Health Monitoring |
| CCA | Carrier Controlled Approach |
| CIN | Course Identification Number |
| CINCLANTFLT | Commander in Chief, Atlantic Fleet |
| CINCPACFLT | Commander in Chief, Pacific Fleet |
| CNET | Chief of Naval Education and Training |
| CNO | Chief of Naval Operations |
| COMNAVAIRLANT | Commander, Naval Air Force Atlantic |
| COMNAVAIRPAC | Commander, Naval Air Force Pacific |
| COTS | Commercial Off-The-Self |
| CV | Aircraft Carrier |
| CVN | Aircraft Carrier, Nuclear |
| | |
| DT | Developmental Test |
| | |
| EM | Electrician's Mate |
| ET | Electronics Technician |

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LIST OF ACRONYMS

| | |
|----------|--|
| FCTCLANT | Fleet Combat Training Center, Atlantic |
| FDC | Flight Deck Control |
| FISC | Fleet Industrial Supply Center |
| FLOLS | Fresnel Lens Optical Landing System |
| FMS | Foreign Military Sales |
| FOSAMS | Fleet Optical Scanning Ammunition Management System |
| FRS | Fleet Readiness Squadron |
| FY | Fiscal Year |
| | |
| GFE | Government Furnished Equipment |
| GOTS | Government Off-The-Shelf |
| | |
| HUD | Head-Up Display |
| | |
| IC | Interior Communications Electrician |
| IFLOLS | Improved Fresnel Lens Optical Landing System |
| ILARTS | Integrated Launch And Recovery Television Surveillance |
| ILSP | Integrated Logistics Support Plan |
| IPB | Illustrated Parts Breakdown |
| ISIS | Integrated Shipboard Information System |
| IT | Information Systems Technician |
| | |
| LAN | Local Area Network |
| LHA | Helicopter Assault Landing Ship |
| LHD | Multipurpose Amphibious Assault Ship |
| LSO | Landing Signal Officer |
| | |
| MAG | Marine Air Group |
| MAPA-C | Magazine Arrangement Planning Aid-Computerized |
| MCAS | Marine Corps Air Station |
| MCCDC | Marine Corps Combat Development Command |
| MMH/OH | Maintenance Man-Hours per Operating Hour |
| MOS | Military Occupational Specialty |
| MOVLAS | Manually Operated Visual Landing Aid System |
| MRC | Maintenance Requirements Card |
| MS | Maintenance Support |
| MSD | Material Support Date |

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LIST OF ACRONYMS

| | |
|--------------|---|
| NA | Not Applicable |
| NAF | Naval Air Facility |
| NAMTRAU | Naval Aviation Maintenance Training Unit |
| NAS | Naval Air Station |
| NATOPS | Naval Air Training and Operating Procedures Standardization |
| NATTC | Naval Air Technical Training Center |
| NAVAIRSYSCOM | Naval Air Systems Command |
| NAVEDTRA | Naval Education and Training |
| NAVPERSCOM | Naval Personnel Command |
| NAWCADLKE | Naval Air Warfare Center Aircraft Division Lakehurst |
| NDI | Non-Developmental Item |
| NEC | Navy Enlisted Classification |
| NS | Naval Station |
| NSA | Naval Security Annex |
| NTSP | Navy Training System Plan |
| | |
| OJT | On-the-Job Training |
| OPEVAL | Operational Evaluation |
| OPIS | Operations Planning and Information System |
| OPNAV | Office of the Chief of Naval Operations |
| OPNAVINST | Office of the Chief of Naval Operations Instruction |
| OPO | OPNAV Principal Official |
| ORD | Operational Requirements Document |
| | |
| PMA | Program Manager, Air |
| PQS | Personnel Qualification Standards |
| PRI FLY | Primary Flight Control |
| PSICP | Primary Support Inventory Control Point |
| | |
| QA | Quality Assurance |
| | |
| RFOU | Ready For Operational Use |
| RFT | Ready For Training |
| | |
| SELRES | Selected Reserve |
| SITU | Stabilized Imaging and Tracking Unit |
| | |
| TAC | Tactical Advanced Computer |

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LIST OF ACRONYMS

| | |
|-----------|--|
| TAD | Temporary Additional Duty |
| TAR | Training and Administration of the Naval Reserve |
| TBD | To Be Determined |
| TD | Training Device |
| TECHEVAL | Technical Evaluation |
| TFS | Total Force Structure |
| TTE | Technical Training Equipment |
| UIC | Unit Identification Code |
| UPS | Uninterruptible Power Supply |
| VISUAL | Virtual Imaging System For Approach and Landing |
| VSTOL OLS | Vertical Short Take-Off and Landing Optical Landing System |

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PREFACE

This Approved Navy Training System Plan (NTSP) for the Aviation Data Management And Control System (ADMACS) updates the Draft NTSP for ADMACS, N78-NTSP-A-50-0009/D, dated March 2001. It has been developed to comply with guidelines set forth in the Navy Training Requirements Documentation Manual, Office of the Chief of Naval Operations (OPNAV) Publication P-751-1-9-97.

This NTSP incorporates changes to the ADMACS program identified during the Aircraft Launch and Recovery Equipment (ALRE) Integrated Logistics Support Management Team meeting held at Naval Air Warfare Center Lakehurst (NAWCADLKE) on 24 April 2001, the ADMACS NTSP Conference held at NAWCADLKE on 5 November 2001, and via fleet review comments. Additionally, this iteration updates information in Parts II, III, and IV to include information for seven returnable-quota courses previously only discussed in Part I.

PART I - TECHNICAL PROGRAM DATA

A. NOMENCLATURE-TITLE-PROGRAM

1. Nomenclature-Title-Acronym. Aviation Data Management And Control System (ADMACS)

2. Program Element. 0603512N

B. SECURITY CLASSIFICATION

- 1. System Characteristics** Unclassified
- 2. Capabilities** Unclassified
- 3. Functions**..... Unclassified

C. MANPOWER, PERSONNEL, AND TRAINING PRINCIPALS

- OPNAV Principal Official (OPO) Program Sponsor..... CNO (N78)
- OPO Resource Sponsor CNO (N78)
- Functional Mission Sponsor CNO (N78)
- Developing Agency..... NAVAIRSYSCOM (PMA251)
- Training Agency CINCLANTFLT
CINCPACFLT
CNET
- Training Support Agency NAVAIRSYSCOM (PMA205)
- Manpower and Personnel Mission Sponsor CNO (N12)
NAVPERSCOM (PERS-4, PERS-404)
- Director of Naval Training CNO (N795)
- Marine Corps Force Structure..... MCCDC (C53)

D. SYSTEM DESCRIPTION

1. Operational Uses. The ADMACS program is an umbrella under which several automated systems are being developed and implemented. ADMACS is the heart of the program, providing a real-time, redundant, configuration managed, tactical Local Area Network (LAN). The ADMACS will be used by ALRE work centers and other work centers supporting air and flight operations on Aircraft Carriers (CV), Aircraft Carriers, Nuclear (CVN), Helicopter Assault Landing Ships (LHA), and Multi-Purpose Amphibious Assault Ships (LHD).

The ADMACS program development and implementation is divided into five increments. Each increment will be managed, funded, developed, and tested separately and will be comprised of systems that contribute to the overall ADMACS program development objectives and address specific user requirements. The five increments for implementation are as follows:

- o **Increment I:** ADMACS and the Integrated Shipboard Information System (ISIS)
- o **Increment II:** Aviation Weapons Information Management System (AWIMS), including the Magazine Arrangement Planning Aid-Computerized (MAPA-C)
- o **Increment III:** Virtual Imaging System For Approach and Landing (VISUAL)
- o **Increment IV:** Advanced Launch and Recovery Control System (ALRCS)
- o **Increment V:** Operations Planning and Information System (OPIS)

a. Aviation Data Management And Control System and Integrated Shipboard Information System. The ADMACS is a tactical LAN that uses an open system architecture to manage the data flow within and among work centers. Additionally, the ADMACS is the data source for information to be exchanged with other command, control, communication, computer, and intelligence systems. Through the ADMACS, the ISIS provides an electronic data processing and display system that improves the timeliness and accuracy of air operations information provided to decision-makers during shipboard flight operations. Production and deployment of ADMACS and ISIS aboard CV and CVN ships has been funded. Funding for ADMACS and ISIS aboard LHA and LHD ships will be made available at a future To Be Determined (TBD) date.

b. Aviation Weapons Information Management System including the Magazine Arrangement Planning Aid-Computerized. The AWIMS will provide information management, control, and communications for the Weapons Department. It will fulfill requirements for improved planning, tracking, control, and monitoring of aviation weapons aboard CV, CVN, LHA, and LHD ships. These improvements will permit rapid response to situational changes, provide real-time data to decision-makers, and reduce the workload associated with these functions. The AWIMS will provide an integrated, economical tool supporting the Weapons Department information requirements by enhancing their ability to enter, store, retrieve, report, and communicate aviation weapons data in a high tempo, real-time operational environment. Functions to be performed by the AWIMS include Weapons Movement Tracking, Automated Load Planning, automated aids supporting on-loads and underway

replenishments, magazine arrangement functions, Weapons Build Status tracking and reporting, and Automated Display/Status Boards. Through the ADMACS, the AWIMS will provide weapons information to key decision-makers and be able to receive data essential to developing the Load Plan and respond to situational changes.

The AWIMS portion of Increment II has not been funded for development; therefore, the information required to develop an NTSP is not available. When the AWIMS has been funded and development begins, AWIMS information will be included in future updates to this NTSP.

The MAPA-C is a computer-based graphics planning aid used by Weapons Department personnel in support of ordnance movement and stowage evolutions aboard CV, CVN, LHA, and LHD ships. MAPA-C, as a stand-alone component of AWIMS, has not been funded through the Defense Acquisition System (DAS); however, the Type Commanders are providing funding for MAPA-C installation onboard CV and CVN ships. Installation will be accomplished concurrently with the installation of ADMACS and ISIS. The MAPA-C is installed aboard the USS Kearsarge (LHD 3) as a stand-alone system independent of ADMACS.

c. Virtual Imaging System for Approach and Landing. The VISUAL is an electro-optical sensor and display system that will provide the enhanced images of aircraft in low visibility and night conditions. The VISUAL will develop and integrate emerging technologies and data networks synergistically in order to provide critical recovery information via the ADMACS to the Landing Signal Officer (LSO) and other decision-makers.

d. Advanced Launch and Recovery Control System. ALRCS will provide catapult and arresting gear control systems to improve the performance, reliability, and safety of existing systems aboard Nimitz-Class CVNs, and to reduce the maintenance costs associated with these systems. The ALRCS will integrate all control and monitoring functions into a redundant microprocessor-based control system. This will also include the automatic generation of individualized Launch and Recovery Bulletins. The ALRCS will consist of several subsystems installed in critical aviation workspaces located throughout the ship. ALRCS will interface with the ADMACS and Integrated Communication Advanced Networks to share data with other shipboard systems. ALRCS will use ADMACS to transfer maintenance information from the Catapults and Arresting Gear areas to the V-2 Maintenance Officer.

e. Operations Planning and Information System. The OPIS will utilize sensors, displays, signal processing, and digital communications systems to provide modern, high performance, fully integrated aviation work centers. This will increase aircraft sortie generation rates while also increasing the safety of aviation operations and the affordability of these systems. The OPIS will accommodate the integration of future systems utilizing a robust systems architecture.

The OPIS, which comprises Increment V of the development and implementation plan, has not been funded; therefore, the information required to develop an NTSP is not

available. When the OPIS has been funded and development begins, OPIS information will be included in future updates to this NTSP.

2. Foreign Military Sales. No Foreign Military Sales (FMS) or other service procurements are planned for any component of the ADMACS.

E. DEVELOPMENTAL TEST AND OPERATIONAL TEST

1. Aviation Data Management And Control System and Integrated Shipboard Information System. The Advanced Development Model evaluation for ISIS, the core LAN component of ADMACS, was completed onboard the USS George Washington (CVN 73) during the ship's deployments in Fiscal Year (FY) 95 and FY97. ADMACS and ISIS Technical Evaluation (TECHEVAL) was successfully completed at NAWCADLKE, in April 1998 and aboard USS Theodore Roosevelt (CVN 71) in October 1998. Operational Evaluation (OPEVAL) was successfully completed aboard CVN 71 in November 1998.

2. Magazine Arrangement Planning Aid-Computerized. No OPEVAL or TECHEVAL was required for the MAPA-C. The MAPA-C feasibility model was developed for the Naval Sea Systems Command by the NAWCADLKE. The MAPA-C Feasibility Model was installed on CVN 73 in March 1995. CVN 73 endorsed the MAPA-C system in May 1995. The Amphibious Class Feasibility Model was funded in April 1996.

3. Virtual Imaging System for Approach and Landing. Developmental Test (DT)-I was successfully completed in June 1999. DT-IIA, design verification, environmental suitability, and Electromagnetic Compatibility testing is scheduled to begin in June 2002 and conclude in December 2002. DT-IIB, technical requirements verification, is scheduled to begin in August 2002 and be completed in January 2003. OPEVAL is scheduled to be conducted aboard the first available CV or CVN ship during deployment in FY03 and aboard an available LHA or LHD ship during an FY04 deployment.

4. Advanced Launch and Recovery Control System. ALRCS OPEVAL and TECHEVAL will be conducted in two phases, land-based and at-sea. The land-based testing will be conducted at NAWCADLKE. When specific evaluation dates have been established, this information will be included in future updates to this NTSP.

F. AIRCRAFT AND/OR EQUIPMENT/SYSTEM/SUBSYSTEM REPLACED

1. Aviation Data Management And Control System and Integrated Shipboard Information System. ADMACS is a new system and does not replace any existing system. ISIS replaces the Plexiglas status boards used in Air Operations (AIR OPS), Carrier Controlled Approach (CCA), Primary Flight Control (PRI FLY), and Flight Deck Control (FDC) with monitors and large screen displays.

2. Magazine Arrangement Planning Aid-Computerized. MAPA-C will replace the current Manual Magazine Arrangement Planning Aid kits in place onboard CV, CVN, LHA, and LHD ships.

3. Virtual Imaging System for Approach and Landing. The VISUAL will replace some of the components currently found in the Integrated Launch And Recovery Television Surveillance (ILARTS) system and the LSO Base Console and Head-Up Display (HUD) Unit on CV and CVN ships. The VISUAL is a new system for LHA and LHD ships.

4. Advanced Launch and Recovery Control System. ALRCS is a new system and will not replace any existing ALRE, with the exception of current catapult and arresting gear operator stations and associated panels and wiring.

G. DESCRIPTION OF NEW DEVELOPMENT

1. Functional Description

a. Aviation Data Management And Control System and Integrated Shipboard Information System. ADMACS allows the incorporation of the functionality of many ALRE and Air Ops components into a single software and hardware baseline. The ADMACS is a real-time, redundant, survivable LAN supporting its components through one-way and two-way secure transfer of critical flight operations data. The ADMACS is a mission critical system that is required to act as a stand-alone, autonomous LAN with the ALRE and AIR OPS supporting work centers when failures and/or battle damage prevent communications with or through external interfaces. Overall, the ADMACS will provide an open system interface allowing future enhancements to be incorporated into the ADMACS baseline, including the processing of video and voice recognition, along with other audio data.

ISIS is an electronic data processing and display system that improves the timeliness and accuracy of AIR OPS information provided to decision-makers during shipboard flight operations. The ISIS employs existing and emerging technologies, interfacing with other shipboard tactical, navigational, and meteorological databases through the ADMACS. This enables rapid input, collection, processing, and distribution of relevant AIR OPS data and the display of this information to all Carrier Air Traffic Control Center work centers and to various locations throughout the ship. The system includes an emergency back-up capability for equipment supporting critical functions with a dedicated Uninterruptible Power Supply (UPS) to allow system operation in the event of power outages. The system also includes the capability for a workstation to operate autonomously. Other features include an electronic paperwork system to standardize and automate the preparation, distribution, and storage of official forms, reports, records, and logs.

b. Magazine Arrangement Planning Aid-Computerized. The MAPA-C system will allow ordnance-handling personnel to plan and arrange weapons within the ships' magazines, weapons component storerooms, and ordnance related storage lockers. The MAPA-C has been developed in response to fleet requests for a means to quickly and easily develop

alternate load-out arrangements for magazines and to be able to meet changing operational requirements. The system is also capable of planning weapons movement on the flight deck and hangar bay during weapons on-loads and off-loads. The system allows the user to arrange the decks with aircraft, boats, handling equipment, and both containerized and ready service weapons to simulate anticipated conditions.

c. Virtual Imaging System for Approach and Landing. The goal of VISUAL is to improve the safety and efficiency of operations by enhancing the LSO's capability to effectively control the aircraft during the recovery process. The VISUAL effort will affect CV, CVN, LHA, and LHD type ships. The major components of the VISUAL are as follows:

(1) Stabilized Imaging and Tracking Unit. The Stabilized Imaging and Tracking Unit (SITU) will be a day-night, infrared television and laser ranging-tracking system that will image and track aircraft during approach and landing. The SITU will provide the LSO the ease of aircraft identification and accurate position and trend information relative to glidepath, as well as imagery, to assess aircraft attitude and response to controls, aircraft damage and condition, and gear and hook status throughout the landing process. The SITU will enhance operations in reduced visibility both day and night. All air capable ships will have SITU installed.

(2) LSO Workstation. The LSO workstation will provide the LSO with dynamic aircraft and ship information necessary to aid in expediting the safe and efficient recovery of aircraft. LHA and LHD ships do not currently have the benefit of a workstation specifically designed for this purpose. The CV and CVN LSO workstation will replace the existing LSO HUD console with an integrated display and control station. It will provide the LSO with a consolidated display of aircraft recovery data and flight deck status during recovery operations.

(3) Fixed Glidepath Sensor. LHA and LHD ships will utilize a fixed camera located on the aft end of the island that will provide an easily interpretable view of the aircraft during recoveries and provide the LSO with a reference for aircraft glide slope and line-up position.

d. Advanced Launch and Recovery Control System. The ALRCS will implement state-of-the-art sensor and control technologies to bring antiquated Launch and Recovery Control Systems up-to-date. This will be done by modernizing existing launch and recovery processes through automation, improved communication, and enhanced human interface. Modeling and simulation will be used to target the best process components for automation.

Existing catapult and arresting gear systems are workload intensive due to manual inputs, including manual logging and data recording, and excessive preventive maintenance. The current Catapult Control System is electro-mechanical and the current Arresting Gear Control system is hydro-mechanical. Both of these systems rely heavily on verbal sound powered phone communications. These existing systems and subsystems will be upgraded to provide smaller, more user-friendly control panels. During the design phase, the type of hardware and software required will be identified at a macro level. The investigation of sensor types, sensor reliability,

signal conditioning requirements, and sensor calibration requirements will also be conducted. This will entail an investigation of available Commercial Off-The-Shelf (COTS) equipment and COTS software that are applicable for use in ALRCS. It will also identify the type of software that would not be COTS and would need to be developed.

2. Physical Description

a. Aviation Data Management And Control System and Integrated Shipboard Information System. The main components of this system are four Tactical Advanced Computer (TAC) servers, four network switches with Asynchronous Transfer Mode (ATM) and Ethernet interface, and a UPS. Primary work centers including AIR OPS, CCA, PRI FLY, and FDC will be configured as follows:

| COMPONENT | QUANTITY | | | |
|----------------------|----------|-----|---------|-----|
| | AIR OPS | CCA | PRI FLY | FDC |
| Large Screen Display | 4 | 5 | 0 | 0 |
| Executive Display | 0 | 0 | 2 | 2 |
| Operator Workstation | 2 | 3 | 3 | 3 |
| Printer | 1 | 1 | 1 | 1 |

b. Magazine Arrangement Planning Aid-Computerized. Two different configurations of the MAPA-C will be employed. One configuration will be used on CV and CVN ships and the other will be used on LHA and LHD ships. MAPA-C is a computer software program that is produced on a Compact Disk.

(1) Aircraft Carriers and Nuclear Aircraft Carriers. Onboard CV and CVN ships, the MAPA-C system consists of four workstation sites linked together by an Ethernet interface and cable. Each workstation site has a Laser Printer, a 17-inch color monitor with 1280 x 1024 pixel resolution, a keyboard, and a mouse. One workstation is located in the Fleet Optical Scanning Ammunition Management System (FOSAMS) office and is a 715/50 File Server and Workstation or similar equipment. The workstation located in the G-3 Division Office consists of a monitor, keyboard, mouse, and an "X" terminal interface. The workstation in the Aviation Weapons Movement Control Station (AWMCS) and FDC also consists of a monitor, keyboard, mouse, and "X" terminal interface. All workstations use the UNIX Operating System and X-Windows graphical user interface system. Access to MAPA-C is controlled through logon names and passwords. The system is protected by a UPS. MAPA-C physical characteristics are as follows:

| UNIT | COMPONENT | DIMENSIONS (INCHES) | | | WEIGHT (POUNDS) | LOCATION |
|------|------------------|---------------------|-------|--------|-----------------|--------------|
| | | LENGTH | WIDTH | HEIGHT | | |
| 1 | UPS | 9.8 | 5.9 | 15.8 | 40 | FOSAMS |
| 2 | Network Server | 4.2 | 16.6 | 17.5 | 20 | FOSAMS |
| 3 | Expansion Tower | 17.7 | 6.7 | 14.4 | 15 | FOSAMS |
| 4 | Workstation | 23.0 | 18.0 | 17.5 | 53 | FOSAMS |
| 5 | Printer | 17.7 | 17.7 | 6.0 | 25 | FOSAMS |
| 6 | Transceiver | 6.0 | 3.0 | 2.0 | 1 | FOSAMS |
| 7 | Transceiver | 6.0 | 3.0 | 2.0 | 1 | G-3 Division |
| 8 | “X” Terminal | 16.0 | 16.0 | 2.0 | 5 | G-3 Division |
| 9 | Work Station | 23.0 | 18.0 | 17.5 | 53 | G-3 Division |
| 10 | Printer | 17.7 | 17.7 | 6.0 | 25 | G-3 Division |
| 11 | Transient Supply | 13.0 | 2.5 | 2.0 | 2.0 | G-3 Division |
| 12 | Transceiver | 6.0 | 3.0 | 2.0 | 1 | AWMCS |
| 13 | “X” Terminal | 16.0 | 16.0 | 2.0 | 5 | AWMCS |
| 14 | Workstation | 23.0 | 18.0 | 17.5 | 53 | AWMCS |
| 15 | Printer | 17.7 | 17.7 | 6.0 | 25 | AWMCS |
| 16 | Transient Supply | 13.0 | 2.5 | 2.0 | 2.0 | AWMCS |
| 17 | Transceiver | 6.0 | 3.0 | 2.0 | 1 | FDC |
| 18 | “X” Terminal | 16.0 | 16.0 | 2.0 | 5 | FDC |
| 19 | Workstation | 23.0 | 18.0 | 17.5 | 53 | FDC |
| 20 | Printer | 17.7 | 17.7 | 6.0 | 25 | FDC |
| 21 | UPS | 9.8 | 5.9 | 15.8 | 40 | FDC |

2. Helicopter Assault Landing Ships and Multi-Purpose Amphibious Assault Ships. Onboard LHA and LHD ships, the MAPA-C system, located at the Aviation Ordnance Control Station (AOCS), is comprised of one stand-alone workstation consisting of a HP 715 File Server, Laser Printer, a 17-inch color monitor with 1280 x 1024 pixel resolution, a keyboard, and a mouse. The workstation uses the UNIX Operating System and X-Windows graphical user interface system. Access to MAPA-C is controlled through logon names and passwords. The system is protected by an UPS. System physical characteristics are as follows:

| UNIT | COMPONENT | DIMENSIONS (INCHES) | | | WEIGHT (POUNDS) | LOCATION |
|------|----------------|---------------------|-------|--------|-----------------|----------|
| | | LENGTH | WIDTH | HEIGHT | | |
| 1 | UPS | 9.8 | 5.9 | 15.8 | 40 | AOCS |
| 2 | Network Server | 4.15 | 16.6 | 17.5 | 20 | AOCS |
| 3 | Workstation | 23.0 | 18.0 | 17.5 | 53 | AOCS |
| 4 | Printer | 17.7 | 17.7 | 6.0 | 25 | AOCS |

c. Virtual Imaging System for Approach and Landing. The acquisition strategy for the VISUAL requires heavy reliance on Non-Developmental Items (NDI), COTS, and Government Off-The-Shelf (GOTS) hardware, software, and firmware, all repackaged for the shipboard operating environment. Therefore, a physical description is not currently available, but will be incorporated in later iterations of this NTSP.

d. Advanced Launch and Recovery Control System. Since equipment configurations are undefined, no physical descriptions are available at this time. When available, a physical description will be added in future versions of this document.

3. New Development Introduction

a. Aviation Data Management And Control System and Integrated Shipboard Information System. The ADMACS and ISIS are being installed through a retrofit program onboard existing CV and CVN ships. ADMACS and ISIS will be installed as new production equipment onboard future new construction CVN, LHA, and LHD type ships.

b. Magazine Arrangement Planning Aid-Computerized. The MAPA-C will be retrofitted aboard existing ships and installed as a production item on new construction.

c. Virtual Imaging System for Approach and Landing. The VISUAL will be retrofit on CV, CVN, LHA, and LHD type ships during overhaul periods as a new production item.

d. Advanced Launch and Recovery Control System. The ALRCS is a modernization retrofit program that will back fit current Nimitz-Class CVNs with new production equipment.

4. Significant Interfaces

a. Aviation Data Management And Control System and Integrated Shipboard Information System. ADMACS and ISIS interface with a ship's associated electrical power systems and integrate all component functions required to support flight operations. ADMACS is compatible with the Joint Maritime Command Information System.

b. Magazine Arrangement Planning Aid-Computerized. The MAPA-C onboard CVs and CVNs will interface with ADMACS through the ISIS. The MAPA-C onboard amphibious ships is a stand-alone system that interfaces with the ship's electrical power system.

c. Virtual Imaging System for Approach and Landing. The CV and CVN VISUAL will interface with ADMACS. The LHA and LHD VISUAL will interface with various shipboard systems.

d. Advanced Launch and Recovery Control System. The ALRCS interfaces with arresting gear Improved Fresnel Lens Optical Landing System (IFLOLS) Cross-Check System, ISIS, Embarked Aircraft Tracking System, Improved ILARTS, Moriah, and ADMACS.

5. New Features, Configurations, or Material

a. Aviation Data Management And Control System and Integrated Shipboard Information System. The ADMACS will use an ATM over a fiber optic backbone.

b. Magazine Arrangement Planning Aid-Computerized. Not Applicable (NA)

c. Virtual Imaging System for Approach and Landing. The VISUAL will develop and integrate emerging technologies and data networks synergistically in order to provide critical recovery information to the LSO.

d. Advanced Launch and Recovery Control System. NA

H. CONCEPTS

1. Operational Concept

a. Aviation Data Management And Control System and Integrated Shipboard Information System. For CV and CVN ships, ADMACS and ISIS will provide related data to CDC, AIR OPS, PRI-FLY, FDC, LSO Platform, and Squadron Ready Rooms, while an executive display will provide data to the bridge. For LHA and LHD ships, ADMACS and ISIS will provide related data to PRI-FLY, FDC, Hangar Deck Control, Tactical Air Control Center, Squadron Ready Rooms, and Debark Control. Manual input stations will require a variety of ratings from different divisions and branches to be manned during flight operations or special evolutions, as is done currently.

b. Magazine Arrangement Planning Aid-Computerized. The MAPA-C is a computerized weapons inventory management tool that will be used on an as needed basis primarily by Aviation Ordnanceman (AO) personnel with Navy Enlisted Classification (NEC) 6801 assigned to the ship's G-3 Division.

c. Virtual Imaging System for Approach and Landing. The VISUAL is operated continuously during flight operations. The LSO is the primary operator.

d. Advanced Launch and Recovery Control System. The ALRCS will be operated by personnel in CVN and CV Air Department, V-2 Division. The ALRCS is manned at all times when the ship is at Flight Quarters.

2. Maintenance Concept

a. Aviation Data Management And Control System and Integrated Shipboard Information System. Maintenance of the ADMACS and ISIS is performed at the organizational and depot level. Within the two-level maintenance concept, two groups of maintainers will be used. Maintenance of the ADMACS and ISIS hardware is accomplished by Electronic Technicians (ET) with NEC 1678. The ADMACS and ISIS software is maintained by Information Systems Technicians (IT) with NEC 2735.

(1) Organizational

(a) Preventive Maintenance. Preventive maintenance consists of cleaning and system functional testing at specified intervals in accordance with procedures established by Maintenance Requirements Cards (MRC).

(b) Corrective Maintenance. Corrective maintenance consists of Built-In Test (BIT), fault isolation, and removal and replacement of failed modules.

(2) Intermediate. NA

(3) Depot. Depot level maintenance will be performed by the original equipment manufacturer or an authorized repair station. Depot level maintenance consists of repair, rework, and overhaul of the replaceable assemblies that are beyond the repair capability of organizational level maintenance.

(4) Interim Maintenance. NA

(5) Life Cycle Maintenance Plan. ADMACS and ISIS will be reworked as required during ship overhaul periods with configuration requests and upgrades documented through the current ship's Maintenance Plan.

b. Magazine Arrangement Planning Aid-Computerized. The MAPA-C is maintained in accordance with the procedures outlined in the Naval Ships' Maintenance Material Management Manual, Office of the Chief of Naval Operations Instruction 4790.4. Maintenance will be accomplished at two levels, organizational and depot.

(1) Organizational

(a) Preventive Maintenance. Preventive maintenance consists of cleaning to be conducted at specified intervals in accordance with procedures established by MRCs.

(b) Corrective Maintenance. Corrective maintenance consists of BIT fault isolation, removal and replacement of failed modules and components, and system functional testing.

(2) Intermediate. NA

(3) Depot. NAWCADLKE will be the depot for the MAPA-C. Currently, basic depot level repair consists of one-for-one replacement of defective hardware.

(4) Interim Maintenance. Interim depot maintenance will be provided on an as needed basis by NAWCADLKE.

(5) Life Cycle Maintenance Plan. As the AWIMS program is implemented, a Life Cycle Maintenance Plan will be developed that includes MAPA-C.

c. Virtual Imaging System for Approach and Landing. The maintenance concept for the VISUAL follows the direction and guidance outlined in both the Aircraft Launch and Recovery Equipment Maintenance Program (ALREMP), OPNAVINST 4790.15, and the Naval Ships' Maintenance Material Management Manual, OPNAVINST 4790.4C. Maintenance will be accomplished at two levels, organizational and depot.

(1) Organizational

(a) Preventive Maintenance. Preventive maintenance will consist of cleaning to be conducted at specified intervals in accordance with procedures established by MRCs.

(b) Corrective Maintenance. Corrective maintenance will consist of BIT fault isolation, removal and replacement of failed modules and components, and system function testing.

1 Stabilized Imaging and Tracking System. The maintenance concept for the SITU will be at two levels, organizational and depot. It is anticipated that for CV and CVN ships Interior Communications Electricians (IC) with NEC 4743 will maintain the SITU. Aboard LHA and LHD ships, ICs with NEC 4779 will maintain the SITU.

2 Landing Signal Officer Workstation. The maintenance concept for the LSO workstation has not been determined. Currently, ICs with NEC 4745 maintain the existing LSO HUD aboard CV and CVN ships, and ICs with NEC 4779 maintain the LSO station onboard LHA and LHD ships. This is not expected to change.

3 Fixed Glidepath Sensor. The Fixed Glidepath Sensor is a fixed camera used on LHA and LHD VISUAL and it is anticipated that ICs with NEC 4779 will maintain this sensor. The maintenance concept has not been defined at this time but will be incorporated in later iterations of this document.

(2) Intermediate. NA

(3) Depot. The original equipment manufacturer or an authorized repair station will perform depot level maintenance. Depot level maintenance will consist of repair, rework, and overhaul of the replaceable assemblies that are beyond the repair capability of the organizational level.

(4) Interim Maintenance. Interim depot maintenance will be provided by the original equipment manufacturer.

(5) Life Cycle Maintenance Plan. VISUAL will be reworked during overhaul periods with configuration request and upgrades documented through the current ship's Maintenance Plan.

d. Advanced Launch and Recovery Control System. General direction and guidance regarding the ALRE maintenance concept is provided by the ALREMP, OPNAVINST 4790.15. The ALREMP prescribes the concept of three levels of maintenance and clearly defines each level. ALRCS logisticians propose that a Conditional-Based Maintenance and Health Monitoring (CBM-HM) program be implemented. The rationale for CBM-HM is as follows:

The Planned Maintenance System, the current maintenance philosophy being administered on both Catapult and Arresting Gear Equipment, is either event or time-driven. This method often requires maintenance actions that may not be warranted but are performed anyway. This results in higher maintenance costs in terms of labor hours and material. The reason this method is currently adopted is that the existing equipment is not capable of monitoring component performance and condition in order to more efficiently schedule maintenance actions. ALRCS will have these capabilities.

Systems that contain many mechanical components require that thousands of hours per ship be expended conducting preventive maintenance. In addition, there are far too many mechanical failure points in these critical control systems. Using CBM-HM will allow for the monitoring and diagnosis of the Catapults and Arresting Gear. CBM-HM will identify critical parameters and use the data obtained from the sensors in computerized algorithms to determine the "health" of the systems. Using these techniques, ALRCS will be able to determine when maintenance is required rather than the current event or time-driven Preventive Maintenance method. With CBM-HM, the maintenance actions themselves may not change, but the frequency of the maintenance actions will be reduced.

(1) Organizational

(a) Preventive Maintenance. ALRCS logisticians are evaluating the maintenance actions that are performed and will attempt to use the CBM-HM philosophy to reduce maintenance frequency and cost. As stated above, ALRCS will be able to determine when maintenance is required through performance and condition monitoring.

(b) Corrective Maintenance. As Corrective Maintenance requirements are determined, they will be added to updates to this document.

(2) Intermediate. ALRCS will explore a Reach Back Maintenance capability. This concept will allow data in various formats to be transmitted ashore to the activity that can provide assistance in direct support of diagnosing catapult or arresting gear problems.

(3) Depot. Depot level and other major maintenance and repair is available through Voyage Repair Teams provided by Naval Aviation Depots, NAWCADLKE, and Naval shipyards.

(4) Interim Maintenance. The NAWCADLKE Carrier and Field Service Team will provide interim maintenance support as required.

(5) Life Cycle Maintenance Plan. After the Design Phase is complete, a Life Cycle Maintenance Plan will be drafted by NAWCADLKE.

3. Manning Concept

a. Aviation Data Management And Control System and Integrated Shipboard Information System. No additional operator personnel will be required to support ADMACS and ISIS. Operator requirements for ADMACS and ISIS will be satisfied by personnel currently assigned operator (watch station) responsibilities with the existing system. Maintainer requirements will be satisfied by existing ships' personnel in the ET and IT ratings.

(1) Estimated Maintenance Man-Hours per Operating Hour. As ADMACS and ISIS have only been installed in operational activities a short time, not enough actual maintenance data has been collected to accurately determine the Maintenance Man-Hour per Operating Hour (MMH/OH). The technical parameter threshold values derived from the Operational Requirements Document for system reliability, availability, and repair times are as follows:

| PARAMETER | DEFINITION | THRESHOLD | OBJECTIVE |
|--|---|------------|------------|
| System Reliability | Mean Time Between Operational Mission Failures | 1406 hours | 3626 hours |
| System Availability | Uptime/(Uptime + Downtime) (percent of uptime usage) | 95% | 98% |
| Weekly Downtime | Preventive and Corrective Maintenance per Week | 8.4 hours | 3.36 hours |
| Operational Mission System Maintainability | Maximum Corrective Mean Time for Operational Mission Failures | 1.5 hours | 1.0 hours |

| PARAMETER | DEFINITION | THRESHOLD | OBJECTIVE |
|--------------------------------|-----------------------------|------------------|------------------|
| Overall System Maintainability | Estimated Corrective MMH/OH | 0.001 hours | 0.0002 hours |

(2) Proposed Utilization. The proposed utilization is 5040 hours annually (210 days times 24 hours).

(3) Recommended Qualitative and Quantitative Manpower Requirements

(a) Operator. Most ADMACS and ISIS operator functions will be performed by Air Traffic Controller (AC) personnel. CV and CVN operators will be ACs with NEC 6902, Carrier Air Traffic Control Center (CATCC) Controllers. LHA and LHD operators will be ACs with NEC 6903, Amphibious Air Traffic Control Center (AATCC) Controllers. Some operator functions may be performed by personnel who are not within the AC rating. ADMACS and ISIS do not generate any additional watch stations or operator positions; no additional operators will be necessary.

(b) Maintenance. ADMACS and ISIS maintainer functions are identified in two groups, hardware and software. Preventive and corrective maintenance will be accomplished by ETs with NEC 1678. Software will be maintained by ITs with NEC 2735. It has not been determined if the additional workload to support ADMACS and ISIS is sufficient to drive an increase in maintenance manpower. When this information becomes available it will be included in future updates to this NTSP.

b. Magazine Arrangement Planning Aid-Computerized. The MAPA-C will be the primary method of performing magazine arrangement plans. If the system becomes inoperable due to hardware or software problems, the Manual MAPA kit will be the auxiliary method until system readiness is reinstated.

(1) Estimated Maintenance Man-Hours per Operating Hour

| PARAMETER | DEFINITION | OBJECTIVE |
|--------------------------------|---|------------------|
| System Reliability | Mean Time Between Mission Critical Failures | 300 hours |
| System Availability | Uptime/(Uptime + Downtime) (percent of uptime usage) | 95% |
| Overall System Maintainability | Mean Time To Repair | 60 minutes |

| PARAMETER | DEFINITION | OBJECTIVE |
|------------------|--------------------------|-----------|
| System Logistics | Mean Logistic Delay Time | 72 hours |

(2) **Proposed Utilization.** The proposed utilization is 2620 hours annually (210 days times 12 hours).

(3) Recommended Qualitative and Quantitative Manpower Requirements

(a) **Operator.** AOs with NEC 6801 will operate the MAPA-C. No additional manpower requirements will be necessary.

(b) **Maintenance.** Maintenance of MAPA-C will be performed by the same technicians that maintain the ADMACS and ISIS.

c. **Virtual Imaging System for Approach and Landing.** Organizational level manpower requirements will not change due to the installation of VISUAL components. Manpower requirements were determined through workload comparability analysis procedures and information from subject matter experts.

(1) **Estimated Maintenance Man-Hours per Operating Hour.** The VISUAL and its related components are designated “non-continuously” operating systems and will be capable of distributing and processing information in support of AIR OPS 24 hours per day throughout a six-month deployment. The technical parameter threshold values derived from the Operational Requirements Document (ORD) for system reliability, availability, and repair time are as follows:

| PARAMETER | DEFINITION | THRESHOLD | OBJECTIVE |
|--|---|-----------|------------|
| System Reliability | Mean Time Between Operational Mission Failures | 703 hours | 1813 hours |
| System Availability | Uptime/(Uptime + Downtime) (percent of uptime usage) | 95% | 98% |
| Operational Mission System Maintainability | Maximum Corrective Mean Time for Operational Mission Failures | 1.5 hours | 1.0 hours |

(2) **Proposed Utilization.** The proposed utilization is 2525 hours annually (210 days times 12.5 hours).

(3) Recommended Qualitative and Quantitative Manpower

Requirements. Assuming the VISUAL threshold and objective goals are attained, the system will not generate enough maintenance actions to require any additional maintenance personnel. Further, since VISUAL does not generate any additional watch stations or operator positions, no additional operators will be necessary.

(a) Operator. On CV and CVN ships, the LSO Workstation is manned by an LSO with Navy Officer Billet Code 8662 and an IC with NEC 4745; the ILARTS Console is manned by an IC with NEC 4743. On LHA and LHD ships, the VISUAL will be manned by an IC with NEC 4779. When Marines are embarked, the LSO duties are performed by Marine Corps personnel with the Military Occupational Specialty (MOS) 7593 or 7594 on aircraft carriers and MOS 7589 for amphibious assault ships.

(b) Maintenance. Personnel in the IC rating will perform maintenance functions on CV and CVN VISUAL systems. ICs with NEC 4745 are responsible for the Fresnel Lens Optical Landing Systems (FLOLS), the manually operated Visual Landing Aid System, and the LSO HUD system, and will be trained to maintain the replaced components. ICs with NEC 4743 currently maintain the ILARTS and will be trained to perform maintenance tasks for replaced components. Vertical/Short Take-Off and Landing Optical Landing System Technicians with NEC 4779 will maintain the VISUAL system on LHA and LHD ships.

d. Advanced Launch and Recovery Control System. Manpower requirements for the V-2 Division are based on total workload requirements, with a daily operating period of 16 hours. Quality Assurance (QA) and Maintenance Support (MS) capabilities must be available 24 hours per day. The V-2 Division is divided into separate work centers for QA, MS, and operation of ALRE. The divisions are manned with Aviation Boatswain's Mate (Launch and Recovery Equipment) (ABE) personnel for the operation and maintenance of ALRE, Electrician's Mates (EM) to maintain the ALRE electrical systems, ICs to maintain the VISUAL landing systems, and Aviation Maintenance Administrationman (AZ) to perform the administrative, managerial, trend analysis, and clerical tasks of the division.

(1) Estimated Maintenance Man-Hours per Operating Hour.

Modeling and simulation will be used to target the best process component for automation and, combined with CBM, should show significant reduction in man-hour requirements. After the final Design Review and component selection is complete, an estimate of Maintenance Man-Hours Per Operating Hour will be established.

(2) Proposed Utilization. The utilization rate for ALRCS is 18 hours per day during deployment. The deployment schedule requires six months out of each year.

(3) Recommended Qualitative and Quantitative Manpower

Requirements. The existing catapult system requires 56 operators and the existing arresting gear requires 47, for a total of 103. Many of the personnel who work in machinery spaces assigned to operate the Catapults and Arresting Gear are not operators. They are strictly monitors. Their stations do not require any input during launch and recovery operations, but their function is

merely to observe and record information. ALRCS eliminates many of the monitor positions and will require 40 catapult operators and 37 arresting gear operators for a total of 77. This reduction in operator requirements will not reduce manpower requirements for the V-2 division but will reduce the workload currently assigned to each operator.

At this point in the development of the ALRCS, it is anticipated that there will not be any immediate change to the current manpower requirements aboard CVN ships. There is a possibility that some reduction in manpower may be realized after final system design is established and if the CBM philosophy is adopted. Results of additional analysis will be reflected in revisions to this document.

4. Training Concept

a. Aviation Data Management And Control System and Integrated Shipboard Information System. All initial ADMACS and ISIS training is complete. Follow-on operator training for ACs will be integrated into existing courses. No increases to current course lengths are anticipated. Follow-on operator training for ADMACS and ISIS manual data input operators not within the AC rating and follow-on maintenance training for ETs with NEC 1678 and ITs with NEC 2735 is currently being satisfied through On-the-Job Training (OJT). Follow-on ADMACS and ISIS training is currently being reviewed to determine if more in-depth training is required. Refer to Navy Training System Plan Conference (NTSPC) Action Items 002 and 003 in Part VI of this NTSP.

(1) Initial Training. Initial training to support TECHEVAL and OPEVAL has been completed. A CATCC instructor from Naval Air Technical Training Center (NATTC) Pensacola, Florida, served as part of the Fleet Project Team and will require no additional initial training.

(2) Follow-on Training

| | |
|------------------------|--|
| Title | Carrier Air Traffic Control Center Operator |
| CIN | C-222-2012 |
| Model Manager ... | NATTC Pensacola |
| Description | <p>This course provides training to prospective CATCC operators, including:</p> <ul style="list-style-type: none">◦ The Organization, Directives, Rules, Procedures, and Phraseology Related to CATCC◦ Shipboard Organization and Interrelations◦ Operational Directives◦ Carrier Naval Air Training and Operating Procedures Standardization (CV NATOPS)◦ CATCC Doctrine, Operation Orders, and Daily Air Plans◦ CATCC Radar◦ Direct Altitude Indicator Readout System◦ Internal and External Communications◦ Informational Display System◦ Duties, Responsibilities, and Skill Requirements Associated with Different Operational and Controller Positions in the CATCC◦ CATCC Controller and Status Board Keeper Watch Station Operations Under Simulated Operational Conditions <p>Upon completion, the student will be qualified to perform functions, under direct supervision, in a CATCC that lead to completion of Personnel Qualification Standards (PQS) for a CATCC Watch Stander.</p> |
| Location | NATTC Pensacola |
| Length | 42 days |
| RFT date | Currently available. TBD with ADMACS and ISIS |
| Skill identifier | AC 6902 |
| TTE/TD | ADMACS and ISIS |
| Prerequisites | <ul style="list-style-type: none">◦ AC Rating◦ C-222-2010, Air Traffic Controller Class A1◦ Current NAVMED 6410/2 Clearance Notice (Aeronautical) signed by a Naval Flight Surgeon |

Title **Amphibious Air Traffic Control Center Operations**

CIN C-222-2019

Model Manager ... NATTC Pensacola

Description This course provides training to prospective AATCC operators, including:

- Organization, Directives, Rules, Procedures, and Phraseology Related to AATCC
- Amphibious Air Operations
- Amphibious Task Force Organization and Command Relationships
- Tactical Air Control Squadron Operations and How They Relate to Operations in an AATCC
- Operations Control Division Responsibility for Equipment and Pre-Launch Brief
- Publications, Charts, and Messages Used During Amphibious Air Operations
- Publication and Use of the Daily Air Plan
- AATCC Watch Station Duties and Responsibilities
- Air Traffic Control Doctrine; Departure, Assault, and Recovery Procedures for Both Helicopter and Vertical/Short Take Off and Landing During Case I, II, and III Operations
- AATCC Radar
- Direct Altitude Indicator Readout System
- Status Boards
- AATCC Watch Station and System Operations Functions Under Simulated Operational Conditions

Upon completion, the student will be qualified to perform functions, under direct supervision, in an AATCC that lead to the completion of PQS for an AATCC Watch Stander.

Location NATTC Pensacola

Length 40 days

RFT date Currently available

Skill identifier AC 6903

TTE/TD ADMACS and ISIS

Prerequisites

- AC Rating
- C-222-2010, Air Traffic Controller Class A1
- Current NAVMED 6410/2 Clearance Notice (Aeronautical) signed by a Naval Flight Surgeon

(3) Student Profiles

| SKILL IDENTIFIER | PREREQUISITE SKILL AND KNOWLEDGE REQUIREMENTS |
|-------------------------|--|
| AC 6902, 6903 | C-222-2010, Air Traffic Controller |

(4) Training Pipelines. No new training pipelines, tracks, or courses will be required to support ADMACS and ISIS.

b. Magazine Arrangement Planning Aid-Computerized

(1) Initial Training. No formal initial training took place during program development. Informal initial operator training is being provided by NAWCADLKE personnel during MAPA-C installation aboard each ship.

(2) Follow-on Training. Due to the simplicity of the MAPA-C software, no formal follow-on operator training will be developed at this time. However, when the AWIMS program is funded, MAPA-C operator training may be incorporated into AWIMS follow-on training. MAPA-C will be maintained by the same ETs with NEC 1678 and ITs with NEC 2735 that maintain the ADMACS and ISIS.

(3) Student Profiles. NA

(4) Training Pipelines. No new training pipelines, tracks, or courses will be required to support MAPA-C training.

c. Virtual Imaging System for Approach and Landing. Initial VISUAL training will be required to support TECHEVAL, OPEVAL, and cadre instructor training. VISUAL operator information will be incorporated into existing follow-on training for Navy and Marine Corps LSOs. VISUAL information will also be incorporated into existing non-formal Marine Corps AV-8B LSO Training. Marine Corps AV-8B LSO designation is earned by completing an LSO training syllabus currently available at Marine Air Group (MAG)-14 Marine Corps Air Station (MCAS) Cherry Point, North Carolina, and MAG-13 MCAS El Toro, California. Follow-on VISUAL maintenance training will consist of replacing the current LSO HUD information contained in courses *C-670-2010, CV and CVN Optical Landing System* and *A-670-0064, LHA and LHD Vertical/Short Take-off and Landing Optical Landing System Maintenance*, with the new LSO workstation information. No increases in course lengths are anticipated. Additionally, course *A-191-0011, Integrated Launch and Recovery Television Surveillance System Maintenance*, will require revision to include operation and maintenance procedures for new VISUAL components.

(1) Initial Training. Initial training will be required for TECHEVAL and OPEVAL personnel. Navy IC instructors will also require initial training so that they can

incorporate VISUAL information into existing follow-on training. No dates or location have been established for initial training. When more information becomes available it will be included in updates to this NTSP.

(2) Follow-on Training

| | |
|------------------------|--|
| Title | Initial Formal Ground Training |
| CIN | D-2G-0001 |
| Model Manager .. | Navy LSO School |
| Description | This course provides training to prospective squadron LSOs, including: <ul style="list-style-type: none"> ◦ LSO Administrative and Operational Responsibilities Including Shore-Based and Shipboard Equipment ◦ Glide Slope Geometry ◦ Aircraft Recovery Bulletins ◦ Aircraft Characteristics ◦ Waving Concepts and Techniques ◦ Field Carrier Landing Practice ◦ Fleet Automated Performance Assessment and Readiness Training Systems <p>Upon completion, the student will be able to perform the duties of a squadron LSO without supervision.</p> |
| Location | Navy LSO School, Naval Air Station (NAS) Oceana |
| Length | 10 days |
| RFT date | Currently available. TBD with VISUAL. |
| Skill identifier | None |
| TTE/TD | CV/CVN LSO Workstation |
| Prerequisites | ◦ Designator 1310 or MOS 7590 ◦ Designation as LSO Trainee |

Title **Advanced Formal Ground Training**
CIN D-2G-0002
Model Manager .. Navy LSO School
Description This course provides training to prospective Airwing and Staff LSOs, including:

- Administrative and Operational Responsibilities of an Airwing or Staff LSO
- Platform Strategy
- Barricade
- Pitching Deck Recoveries
- LSO Training and Evaluation
- Fleet Automated Performance Assessment and Readiness Training System

Upon completion, the student will be able to perform the duties of a Wing or Staff LSO without supervision.

Location Navy LSO School, NAS Oceana
Length 3 days
RFT date Currently available. TBD with VISUAL.
Skill identifier None
TTE/TD CV/CVN LSO Workstation
Prerequisites

- Designator 1310
- D-2G-0001, Initial Formal Ground Training
- Wing LSO Designation

Title **Fleet Replacement Squadron Training Command**
CIN D-2G-0003
Model Manager .. Navy LSO School
Description This course provides training to prospective Fleet Readiness Squadron (FRS) and training command LSOs, including:

- Administrative and Operational Responsibilities of a Training LSO
- Teaching Waving Techniques and Considerations
- Conducting Ground Training and Field Carrier Landing Practice
- Initial Carrier Qualification Requirements
- FRS Automated Performance Assessment and Readiness Training System

Upon completion, the student will be able to perform the duties of an FRS or training command LSO without supervision.

Location Navy LSO School, NAS Oceana
Length 3 days
RFT date Currently available. TBD with VISUAL.
Skill identifier None
TTE/TD CV/CVN LSO Workstation
Prerequisites

- Designator 1310
- D-2G-0002, Initial Formal Ground Training
- Squadron LSO Designation

| | |
|------------------------|---|
| Title | Integrated Launch and Recovery Television Surveillance System Maintenance |
| CIN | A-191-0011 |
| Model Manager .. | Service School Command |
| Description | <p>This course provides training to IC personnel, including:</p> <ul style="list-style-type: none"> ◦ Analysis of Basic Television Circuits ◦ Basic Color and Monochrome Television Theory ◦ ILARTS and Related Equipment Operation and Maintenance Procedures ◦ Theory, Detailed Analysis, and Troubleshooting of the ILARTS Low Level Camera ◦ Theory, Detailed Analysis, and Troubleshooting of the ILARTS Airborne Video Tape Recorder ◦ Basic Operation and Troubleshooting Procedures for ILARTS Operation Console and Related Equipment <p>Upon completion, the student will be able to perform maintenance on ILARTS and related equipment aboard CV and CVN ships without supervision.</p> |
| Location | Service School Command, Great Lakes, Illinois |
| Length | 124 days |
| RFT date | Currently available. TBD with VISUAL. |
| Skill identifier | IC 4743 |
| TTE/TD | New VISUAL components that replace current ILARTS components. |
| Prerequisite | A-623-0105, IC Class “A” School |

| | |
|------------------------|---|
| Title | Optical Landing Systems Maintenance |
| CIN | C-670-2010 |
| Model Manager .. | NATTC Detachment (DET) Lakehurst |
| Description | <p>This course provides training to IC personnel including:</p> <ul style="list-style-type: none"> ◦ MK 6 MOD 3 FLOLS Operation, Maintenance, Fault Isolation, and Repair ◦ MK 1 MOD 2 Manually Operated Visual Landing Aid System (MOVLAS) Operation, Maintenance, Fault Isolation, and Repair ◦ MK 1 MOD 0 LSO HUD Operation, Maintenance, Fault Isolation, and Repair (Note: This MK-1 MOD 0 HUD training will be replaced with the new LSO workstation information when VISUAL information is incorporated.) <p>Upon completion, the student will be able to maintain and repair the FLOLS, MOVLAS, and LSO HUD aboard CV and CVN ships without supervision.</p> |
| Location | NATTC DET Lakehurst |
| Length | 72 days |
| RFT date | Currently available. TBD with VISUAL. |
| Skill identifier | IC 4745 |
| TTE/TD | CV/CVN LSO Workstation |
| Prerequisite | A-623-0105, IC Class “A” School |

Title **Vertical/Short Take-Off and Landing Optical Landing System Maintenance**

CIN A-670-0064

Model Manager .. Service School Command

Description This course provides training to IC personnel, including:

- Vertical Short Take-Off and Landing Optical Lens System (VSTOL OLS) Operation
- VSTOL OLS Components
- VSTOL OLS Preventive Maintenance
- VSTOL OLS Fault Isolation and Troubleshooting
- VSTOL OLS Repair

Upon completion, the student will be able to maintain and repair the VSTOL OLS aboard LHA and LHD ships without supervision.

Location Service School Command, Great Lakes

Length 12 days

RFT date Currently available. TBD with VISUAL.

Skill identifier IC 4779

TTE/TD LHA/LHD LSO Workstation

Prerequisite ◦ IC Rating
◦ Paygrades E-5 through E-7

(3) Student Profiles

| SKILL IDENTIFIER | PREREQUISITE SKILL AND KNOWLEDGE REQUIREMENTS |
|--------------------------------|--|
| Navy 1310 | Qualified Fixed-Wing Pilot |
| Marine Corps MOS 7590, 7598 | Basic Fixed-Wing Pilot |
| IC 4743, 4745, and 4779 | A-623-0105, IC Class "A" School |

(4) Training Pipelines. No new training pipelines, tracks, or courses will be required to support VISUAL training.

d. Advanced Launch and Recovery Control System. Initial ALRCS training will be required to support TECHEVAL, OPEVAL, and cadre instructor training. All existing follow-on catapult and arresting gear operator and maintenance courses will require revision to include the new ALRCS electronic sensors information. The current maintenance course for Steam Catapult Electrician will require a major revision. The proposed electronic sensors are within the scope of EM NEC 4672 but are currently not taught to the level required to maintain the ALRCS. As part of an Advanced Technology Demonstrator, Naval Air Warfare Center Training Systems Division, Orlando, Florida, is exploring embedded training as a concept for ALRCS operator training for use aboard future generation aircraft carriers and other Navy platforms.

(1) Initial Training. Initial training will be required for OPEVAL and TECHEVAL personnel. Navy instructors will also require initial training so that they can establish organic follow-on training. No dates or locations have been established for initial training. When this information becomes available it will be included in updates to this NTSP.

(2) Follow-on Training. The following NEC awarding courses will require revision to include ALRCS information. Course lengths for these courses are expected to increase.

| | |
|--------------------|--|
| Title | Aircraft Launch and Recovery Equipment Maintenance Officer |
| CIN | C-604-2011 |
| Model Manager ... | NATTC DET Lakehurst |
| Description | This course provides training to prospective ALRE Maintenance Officers, including: <ul style="list-style-type: none"> ◦ ALRE Maintenance Management ◦ ALRE Records, Reports, and Logs ◦ Supply Procedures ◦ Catapult Systems ◦ Landing Gear Systems ◦ Visual Landing Aid Systems ◦ Technical Library <p>Upon completion, the student will be able to perform as the ALRE Maintenance Officer aboard CV and CVN ships without supervision.</p> |
| Location | NATTC DET Lakehurst |
| Length | 38 days. TBD with ALRCS. |

RFT date Currently available. TBD with ALRCS.
Skill identifier None
TTE/TD Additional TTE and TDs to support ALRCS are TBD.
Prerequisites ° Officers with orders to ALRE Maintenance Officer billets
or
° ABE Rating
° Paygrades E-7 through E-9

Title CV Catapult Electrician

CIN C-604-2013
Model Manager ... NATTC DET Lakehurst
Description This course provides training to EM personnel, including:
° Arresting Gear and Deck Accessories
° Catapults
° Electrical Schematics
° General Maintenance and Upkeep
° Safety
° Quality Assurance
° Technical Publications

Upon completion, the student will be able to maintain and repair the catapult and arresting gear electrical systems aboard CV and CVN ships without supervision.

Location NATTC DET Lakehurst
Length 26 days. TBD with ALRCS.
RFT date Currently available. TBD with ALRCS.
Skill identifier NEC 4672
TTE/TD Additional TTE and TDs to support ALRCS are TBD.
Prerequisites ° EM Rating
° Paygrade E-4
° Ultimate duty assignment to an aircraft carrier

Title **Aircraft Launch and Recovery Equipment C13
Catapult Class C1**

CIN C-604-2014

Model Manager ... NATTC DET Lakehurst

Description This course provides training to ABE personnel, including:

- Type C MK-13 MOD 0 Catapult Operation
- Type C MK-13 MOD 1 Catapult Operation
- Type C MK-13 MOD 2 Catapult Operation

Upon completion, the student will be able operate Type C MK-13 series catapults aboard CV and CVN ships under supervision.

Location NATTC DET Lakehurst

Length 44 days. TBD with ALRCS.

RFT date Currently available. TBD with ALRCS.

Skill identifier NEC 7004

TTE/TD Additional TTE and TDs to support ALRCS are TBD.

Prerequisites ◦ ABE Rating
◦ Paygrades E-4 through E-9
◦ C-604-2012, Aviation Boatswain's Mate Launch and Recovery Equipment Class A1

Title **Aircraft Launch and Recovery Equipment Maintenance Technician**

CIN C-604-2028

Model Manager ... NATTC DET Lakehurst

Description This course provides training to ABE personnel, including:

- ALRE Maintenance Administration
- Maintenance Programs and Practices
- Safety
- General Maintenance and Upkeep
- Hydraulic System Maintenance
- Jet Blast Deflectors
- Aircraft Recovery Equipment
- Barricades

Upon completion, the student will be able to maintain and repair the catapult and arresting gear aboard CV and CVN ships without supervision.

Location NATTC DET Lakehurst

Length 88 days. TBD with ALRCS.

RFT date Currently available. TBD with ALRCS.

Skill identifier NEC 7006

TTE/TD Additional TTE and TDs to support ALRCS are TBD.

Prerequisites ◦ ABE 7004 or 7005
 ◦ Paygrades E-5 through E-9

Title **Aircraft Launch and Recovery Equipment Arresting Gear**

CIN C-604-2029

Model Manager ... NATTC DET Lakehurst

Description This course provides training to ABE personnel, including:

- MK-7 MOD 2 Arresting Gear Operation
- MK-7 MOD 3 Arresting Gear Operation
- MK-7 MOD 4 Arresting Gear Operation

Upon completion, the student will be able operate MK-7 series arresting gear aboard CV and CVN ships under supervision.

Location NATTC DET Lakehurst
 Length 24 days. TBD with ALRCS.
 RFT date Currently available. TBD with ALRCS
 Skill identifier NEC 7005
 TTE/TD Additional TTE and TDs to support ALRCS are TBD.
 Prerequisites ° C-604-2012, Aviation Boatswain's Mate Launch and Recovery Equipment Class A1
 ° ABE Rating
 ° Paygrade E-4

The following non-NEC awarding courses will require modification to include ALRCS information. Course lengths may or may not increase. Students attend these courses while in a no-cost Temporary Additional Duty (TAD) status.

Title Aircraft Launch and Recovery Equipment Refresher
 CIN C-604-2016
 Model Manager ... Naval Air Maintenance Training Unit (NAMTRAU) North Island, California
 Description This course provides training to PQS qualified ABE, personnel including:
 ° Type C MK-13 Series Catapult Operation
 Upon completion, the student will be able operate MK-13 Series Catapults aboard CV and CVN ships under supervision.
 Location ° NAMTRAU Norfolk, Virginia
 ° NAMTRAU North Island
 Length 11 days
 RFT date Currently available. TBD with ALRCS.
 Skill identifier None
 TTE/TD Additional TTE and TDs to support ALRCS are TBD.
 Prerequisites ° ABE Rating
 ° Paygrade E-5 through E-9

Title **Aircraft Launch and Recovery Equipment Quality Assurance Administration**

CIN C-604-2017

Model Manager ... NAMTRAU Norfolk

Description This course provides training to ABE, EM, and AZ personnel, including:

- ALRE Quality Assurance Program Overview
- Quality Assurance Instructions and Directives
- Quality Assurance Record Maintenance
- Quality Assurance Reports
- Monitoring Procedures

Upon completion, the student will be able to administer and maintain a Quality Assurance Program aboard CV and CVN ships under all conditions of readiness, under limited supervision.

Location ◦ NAMTRAU Norfolk
◦ NAMTRAU North Island

Length 5 days

RFT date Currently available. TBD with ALRCS.

Skill identifier None

TTE/TD Additional TTE and TDs to support ALRCS are TBD.

Prerequisites ◦ AZ Rating
◦ Paygrades E-4 through E-6
◦ Assigned to V-2 Division
or
◦ ABE or EM Rating
◦ Paygrade E-6 through E-9

Title **Aircraft Launch and Recovery Equipment - Catapult Basic**

CIN C-604-2024

Model Manager ... NAMTRAU North Island

Description This course provides training to ABE, EM, and AZ personnel, including:

- Basic Catapult System
- Catapult Operational Phases
- Component Identification
- Basic Troubleshooting
- Operation and Maintenance Publications
- Safety Precautions

Upon completion, the student will be able to perform basic catapult maintenance functions aboard CV and CVN ships under close supervision.

Location ◦ NAMTRAU Norfolk
◦ NAMTRAU North Island

Length 10 days

RFT date Currently available. TBD with ALRCS.

Skill identifier None

TTE/TD Additional TTE and TDs to support ALRCS are TBD.

Prerequisites ◦ ABE Rating
◦ Paygrades E-1 through E-9 (may be Non-Designated Airman striking for ABE rating)

Title **Aircraft Launch and Recovery Equipment Arresting Gear**

CIN C-604-2025

Model Manager ... NAMTRAU North Island

Description This course provides Aircraft Launch and Recovery personnel with sufficient knowledge of the MK-7 Arresting Gear System, including:

- Operational Phases
- Component Identification
- Basic Troubleshooting
- Safety Precautions

Upon completion, the student will be able to perform arresting gear maintenance under close supervision.

Location ◦ NAMTRAU Norfolk
 ◦ NAMTRAU North Island

Length 9 days

RFT date Currently available. TBD with ALRCS.

Skill identifier None

TTE/TD Additional TTE and TDs to support ALRCS are TBD.

Prerequisites ◦ ABE Rating
 ◦ Paygrades E-1 through E-9 (may be Non-Designated Airman striking for ABE rating)

(3) Student Profiles

| SKILL IDENTIFIER | PREREQUISITE SKILL AND KNOWLEDGE REQUIREMENTS |
|-------------------------|--|
| ABE | ◦ C-604-2012, Aviation Boatswain’s Mate Aircraft Launching And Recovery Equipment Class A1 |
| EM | ◦ A-651-0118, Engineering Common Core ◦ A-651-0119, Engineering Electrical Core |
| AZ | ◦ C-555-2010, Aviation Maintenance Administrationman Class A1 |

(4) Training Pipelines. No new training pipelines, tracks, or courses will be required to support ALRCS.

I. ONBOARD (IN-SERVICE) TRAINING

1. Proficiency or Other Training Organic to the New Development

a. Maintenance Training Improvement Program. NA

b. Aviation Maintenance Training Continuum System. NA

2. Personnel Qualification Standards. The following Naval Education and Training (NAVEDTRA) PQS publications will require revision to include applicable ADMACS, ISIS, VISUAL, and ALRCS information:

| TITLE | NUMBER | MODEL MANAGER |
|---|----------------------|--|
| Air Department MK 7 Arresting Gear | NAVEDTRA 43426-6C | Commander Naval Airforce Atlantic (COMNAVAILANT) |
| Air Department Steam Catapults | NAVEDTRA 42426-5D | COMNAVAILANT |
| Aircraft Launch And Recovery Officer | NAVEDTRA 43443-A | COMNAVAILANT |
| Amphibious Air Traffic Control Center/Helicopter Direction Center | NAVEDTRA 43315-6B | Commander Tactical Group ONE |
| CV/CVN Air Traffic Control Center | NAVEDTRA 43496-6C/SA | COMNAVAILANT |
| CV/CVN Air Traffic Control Center | NAVEDTRA 43496-6C | COMNAVAILANT |
| Fresnel Lens | NAVEDTRA 43225-6B | Commander Naval Airforce Pacific (COMNAVIRPAC) |
| Fresnel Lens | NAVEDTRA 43225-6B/SA | COMNAVIRPAC |
| Integrated Launch and Recovery Television System | NAVEDTRA 43225-7B | COMNAVIRPAC |
| Integrated Launch and Recovery Television System | NAVEDTRA 43225-7B/SA | COMNAVIRPAC |

| TITLE | NUMBER | MODEL MANAGER |
|---|----------------------|--|
| Joint Maritime Command Information System Operator | NAVEDTRA 43555 | Fleet Combat Training Center Atlantic (FCTCLANT) |
| Joint Maritime Command Information System, Administrator | NAVEDTRA 43555-2 | FCTCLANT |
| Joint Maritime Command Information System Watch Officer/Manager | NAVEDTRA 43555-1 | FCTCLANT |
| Landing Signalman Enlisted | NAVEDTRA 43436-A | COMNAVVAIRPAC |
| Steam Catapult/Arresting Gear Electrician | NAVEDTRA 43426-25B | COMNAVVAIRLANT |
| Steam Catapult/Arresting Gear Electrician | NAVEDTRA 43426-25B/S | COMNAVVAIRLANT |
| Tactical Air Control Center | NAVEDTRA 43472-A | Commander Amphibious Group THREE |

3. Other Onboard or In-Service Training Packages. Training requirements for ADMACS and ISIS manual data input operators not within the AC rating will be satisfied through OJT. Non-rated Non-Designated Airman and ABE personnel in paygrades E-3 through E-5 assigned to CV and CVN V-2 Divisions perform OJT in conjunction with PQS.

J. LOGISTICS SUPPORT

1. Manufacturer and Contract Numbers

a. Aviation Data Management And Control System and Integrated Shipboard Information System. ADMACS and ISIS are being developed and integrated by NAWCADLKE using GOTS, COTS, and NDI Procurement.

b. Magazine Arrangement Planning Aid-Computerized. MAPA-C is being developed and manufactured by NAWCADLKE using Government Furnished Equipment (GFE).

c. Virtual Imaging System for Approach and Landing

| CONTRACT NUMBER | MANUFACTURER | ADDRESS |
|------------------------|-----------------------------|--|
| N68335-00-C-0372 | Boeing Aircraft Corporation | 3370 East Miraloma Avenue Anaheim, CA 92806 |

d. Advanced Launch and Recovery Control System. TBD

2. Program Documentation. The ADMACS ORD (Number 459-88-97, dated April 1997) includes the ISIS, MAPA-C, VISUAL, and ALRCS programs. No individual ORDs will be published for these programs.

a. Aviation Data Management And Control System and Integrated Shipboard Information System. The Initial Integrated Logistics Support Plan (ILSP), ILSP-82095001, was approved in October 1996. Maintenance Plans for ADMACS and ISIS are under development.

b. Magazine Arrangement Planning Aid-Computerized. A Preliminary Reference Manual for the MAPA-C Feasibility Model, SEA 03W46:MS, was published in June 1997.

c. Virtual Imaging System for Approach and Landing. An Acquisition Strategy for VISUAL was approved in June 1997 and updated in 1999. An Executive Summary for VISUAL, Increment III of ADMACS, was published April 1998.

d. Advanced Launch and Recovery Control System. An Executive Summary for ALRCS, Increment IV of ADMACS, was published in April 1998. A Detailed Plan of Action and Milestones for ALRCS, CVN Study Effort, was published in May 1998.

3. Technical Data Plan

a. Aviation Data Management And Control System and Integrated Shipboard Information System. NAWCADLKE is currently developing preliminary operator and maintenance manuals, as well as final operation and maintenance manuals with illustrated parts breakdown for the ADMACS and ISIS.

b. Magazine Arrangement Planning Aid-Computerized. NAWCADLKE will provide all required technical manuals for MAPA-C installation, operation, and maintenance.

c. Virtual Imaging System for Approach and Landing. All required technical publications will be provided by the contractor.

d. Advanced Launch and Recovery Control System. A Technical Data Plan has not been established at this time for ALRCS. When a plan has been established, the information will be included in future updates to this NTSP.

4. Test Sets, Tools, and Test Equipment. No new test sets, tools, or test equipment will be required to support ADMACS and ISIS, MAPA-C, or VISUAL. Some new support equipment may be required to support ALRCS. When this information is known, it will be added to updates to this NTSP.

5. Repair Parts

a. Aviation Data Management And Control System and Integrated Shipboard Information System. Supply support will be managed under the Primary Support Inventory Control Point (PSICP) concept. The PSICP will maintain land-based and shipboard allowance stock levels at Fleet Industrial Supply Centers (FISC) and fleet activities. Fleet users will requisition these items from FISC via military standard requisition and issue procedures. Interim support will be the responsibility of NAWCADLKE until the Material Support Date (MSD) is achieved in June 2002.

b. Magazine Arrangement Planning Aid-Computerized. Since the installation of MAPA-C is being funded by the Type Commanders and all hardware will be obtained through COTS procurement actions, no formal MSD will be established. Hardware replacements will be obtained through normal supply channels. Software replacements will be provided by NAWCADLKE.

c. Virtual Imaging System for Approach and Landing. Navy Supply Center Mechanicsburg, Pennsylvania, will serve as the PSICP after the MSD. MSD is scheduled for FY06. Prior to MSD, PSICP Mechanicsburg will provide interim support.

d. Advanced Launch and Recovery Control System. A Material Support Plan has not been established for ALRCS. When this information becomes available it will be included in updates to this NTSP.

6. Human Systems Integration. A human engineering effort has been integrated into the program to develop and improve the man-machine interface and to achieve required effectiveness of human performance during system operation and maintenance. The efforts for ADMACS and each of its components includes a Fleet Project Team composed of fleet representatives for whom the equipment will support. This will provide direct feedback on the effectiveness of the equipment and how it will be used. The human engineering effort includes, but is not necessarily be limited to, active participation in the following three major interrelated areas of system development: analysis, design and development, and test and evaluation.

K. SCHEDULES

1. Installation and Delivery Schedules

a. Aviation Data Management And Control System and Integrated Shipboard Information System. Funding for installations of ADMACS and ISIS is currently limited to CV and CVN ships. An installation schedule for ADMACS and ISIS aboard LHA and LHD ships will not be developed until funding becomes available. ADMACS and ISIS will not be installed aboard the USS Constellation (CV 64), due to scheduled decommissioning in FY02. Additionally, ADMACS and ISIS are not being installed at this time aboard USS Enterprise (CVN 65), USS John F. Kennedy (CV 67), and USS Carl Vinson (CVN 70).

PROCUREMENT AND INSTALLATION SCHEDULE

| ACTIVITY | PROCUREMENT | INSTALLATION |
|----------------------------------|-------------|--------------|
| USS Kitty Hawk, CV 63 | FY01 | FY02 |
| USS Nimitz, CVN 68 | FY98 | FY00 |
| USS Dwight D. Eisenhower, CVN 69 | FY00 | FY02 |
| USS Theodore Roosevelt, CVN 71 | FY01 | FY02 |
| USS Abraham Lincoln, CVN 72 | FY00 | FY01 |
| USS George Washington, CVN 73 | FY00 | FY01 |
| USS John C. Stennis, CVN 74 | FY00 | FY01 |
| USS Harry S. Truman, CVN 75 | FY00 | FY01 |
| USS Ronald Reagan, CVN 76 | FY00 | FY01 |

b. Magazine Arrangement Planning Aid-Computerized. MAPA-C will be installed concurrently with ADMACS and ISIS.

c. Virtual Imaging System for Approach and Landing. The VISUAL will be procured by the Navy at NAWCADLKE. NAWCADLKE will act as the system development agent. Current plans call for 12 CV and CVN configuration VISUAL systems to be procured and installed in FY06. The procurement and installation of amphibious configuration VISUAL systems is currently on hold for funding. When more definitive installation information becomes available it will be included in updates to this NTSP.

d. Advanced Launch and Recovery Control System. TBD

2. Ready For Operational Use Schedule

a. Aviation Data Management And Control System and Integrated Shipboard Information System. The ADMACS and ISIS are considered Ready For Operational Use (RFOU) upon completion of installation and system checkout.

b. Magazine Arrangement Planning Aid-Computerized. The MAPA-C will be RFOU upon completion of installation.

c. Virtual Imaging System for Approach and Landing. The VISUAL will be RFOU upon successful completion of the Performance and Certification Survey conducted by the Support Equipment and In-Service Engineering Division, Performance and Certification Branch, NAWCADLKE.

d. Advanced Launch and Recovery Control System. TBD

3. Time Required to Install at Operational Sites

a. Aviation Data Management And Control System and Integrated Shipboard Information System. Approximately four months will be required for equipment installation, check-out, and grooming.

b. Magazine Arrangement Planning Aid-Computerized. The MAPA-C will require approximately one week for installation and check-out.

c. Virtual Imaging System for Approach and Landing. TBD

d. Advanced Launch and Recovery Control System. TBD

4. Foreign Military Sales and Other Source Delivery Schedule. NA

5. Training Device and Technical Training Equipment Delivery Schedule

a. Aviation Data Management And Control System and Integrated Shipboard Information System. The CV and CVN version of ISIS has been installed at NATTC Pensacola.

b. Magazine Arrangement Planning Aid-Computerized. NA

c. Virtual Imaging System for Approach and Landing. The following TTE will be required to support VISUAL training. Required delivery dates have not been established at this early stage of development. When delivery dates have been determined they will be included in future updates to element IV.A.1 of this NTSP.

| EQUIPMENT REQUIRED | QUANTITY REQUIRED | COURSE SUPPORTED | TRAINING LOCATION |
|------------------------------------|--------------------------|-------------------------------------|---------------------------------------|
| CV and CVN Version LSO Workstation | 2 | D-2G-0001 D-2G-0002 D-2G-0003 | Navy LSO School NAS Oceana |
| CV and CVN Version LSO Workstation | 1 | C-670-2010 | NATTC DET Lakehurst |
| Amphibious Version LSO Workstation | 1 | A-670-0064 | Service School Command Great Lakes |
| VISUAL Components (Note) | 1 set | A-191-0011 | Service School Command Great Lakes |

Note: This TTE requirement consists of new VISUAL components that will replace existing ILARTS components. When more information becomes available it will be included in future updates to this NTSP.

d. Advanced Launch and Recovery Control System. TBD

L. GOVERNMENT-FURNISHED EQUIPMENT AND CONTRACTOR-FURNISHED EQUIPMENT TRAINING REQUIREMENTS. NA

M. RELATED NTSPs AND OTHER APPLICABLE DOCUMENTS

| DOCUMENT OR NTSP TITLE | DOCUMENT OR NTSP NUMBER | PDA CODE | STATUS |
|---|--------------------------------|-----------------|--------------------|
| Aircraft Carrier Visual Landing Aids Systems Navy Training System Plan | A-50-9202A/A | PMA251 | Approved Nov 99 |
| Amphibious Assault Ship Visual Landing Aids Systems Navy Training System Plan | A-50-9203A/A | PMA251 | Approved Jul 00 |
| Air Capable Ship Visual Landing Aids Systems Navy Training System Plan | A-50-9205A/P | PMA251 | Proposed Feb 00 |

| DOCUMENT OR NTSP TITLE | DOCUMENT OR NTSP NUMBER | PDA CODE | STATUS |
|--|--------------------------------|-----------------|-----------------|
| Integrated Logistics Support Plan for the Aviation Data Management and Control System | ILSP-82095001 | PMA251 | Approved Oct 96 |
| Integrated Logistics Support Plan for the Integrated Shipboard Information System | ILSP-82094001 | PMA251 | Approved Apr 95 |
| Maintenance Plan for ISIS | MP M84097002 | PMA251 | In Work |
| Maintenance Plan for ADMACS | MP M90097001 | PMA251 | In Work |
| Acquisition Strategy for VISUAL | NA | PMA251 | Approved Jun 97 |
| Detailed Plan of Action and Milestones, CVN Study Effort | NA | PMA251 | May 98 |
| Operational Requirements Document for ADMACS | 459-88-97 | PMA251 | Approved Oct 97 |
| Aviation Data Management And Control System Initial Navy Training System Plan | N78-NTSP-A-50-0009 | PMA251 | Initial Jun 99 |
| Virtual Imaging System for Approach and Landing Initial Navy Training System Plan | NA | PMA251 | Initial Feb 00 |
| Advanced Launch and Recovery Control System Initial Navy Training System Plan | NA | PMA251 | Initial Sep 99 |
| Acquisition Logistics Support Plan for the Visual Imaging System for Approach and Landing (VISUAL) | ALSP-A84097001 | PMA251 | Approved Dec 99 |

PART II - BILLET AND PERSONNEL REQUIREMENTS

The following elements are not affected by the ADMACS and, therefore, are not included in Part II of this NTSP:

II.A. Billet Requirements

II.A.2.b. Billets to be Deleted in Operational and Fleet Support Activities

II.A. BILLET REQUIREMENTS

II.A.1.a. OPERATIONAL AND FLEET SUPPORT ACTIVITY ACTIVATION SCHEDULE

SOURCE: Total Force Manpower Management System

DATE: July 2001

| ACTIVITY | UIC | PFYs | CFY02 | FY03 | FY04 | FY05 | FY06 |
|-----------------------------------|-------|------|-------|------|------|------|------|
| OPERATIONAL ACTIVITIES - NAVY | | | | | | | |
| CVW-1 | 09732 | 1 | 0 | 0 | 0 | 0 | 0 |
| CVW-17 | 09745 | 1 | 0 | 0 | 0 | 0 | 0 |
| CVW-3 | 09731 | 1 | 0 | 0 | 0 | 0 | 0 |
| CVW-7 | 09736 | 1 | 0 | 0 | 0 | 0 | 0 |
| CVW-8 | 09748 | 1 | 0 | 0 | 0 | 0 | 0 |
| CVWR-20 | 09393 | 1 | 0 | 0 | 0 | 0 | 0 |
| USS Bataan (LHD 5) | 21879 | 1 | 0 | 0 | 0 | 0 | 0 |
| USS Dwight D. Eisenhower (CVN 69) | 03369 | 1 | 0 | 0 | 0 | 0 | 0 |
| USS Enterprise (CVN 65) | 03365 | 1 | 0 | 0 | 0 | 0 | 0 |
| USS George Washington (CVN 73) | 21412 | 1 | 0 | 0 | 0 | 0 | 0 |
| USS Harry S. Truman (CVN 75) | 21853 | 1 | 0 | 0 | 0 | 0 | 0 |
| USS Iwo Jima (LHD 7) | 23027 | 1 | 0 | 0 | 0 | 0 | 0 |
| USS John F. Kennedy (CV 67) | 03367 | 1 | 0 | 0 | 0 | 0 | 0 |
| USS Kearsarge (LHD 3) | 21700 | 1 | 0 | 0 | 0 | 0 | 0 |
| USS Nassau (LHA 4) | 20725 | 1 | 0 | 0 | 0 | 0 | 0 |
| USS Ronald Reagan (CVN 76) | 22178 | 0 | 1 | 0 | 0 | 0 | 0 |
| USS Saipan (LHA 2) | 20632 | 1 | 0 | 0 | 0 | 0 | 0 |
| USS Theodore Roosevelt (CVN 71) | 21247 | 1 | 0 | 0 | 0 | 0 | 0 |
| USS Wasp (LHD 1) | 21560 | 1 | 0 | 0 | 0 | 0 | 0 |
| VAW-120 | 09527 | 1 | 0 | 0 | 0 | 0 | 0 |
| VAW-121 | 09467 | 1 | 0 | 0 | 0 | 0 | 0 |
| VAW-123 | 09477 | 1 | 0 | 0 | 0 | 0 | 0 |
| VAW-124 | 09526 | 1 | 0 | 0 | 0 | 0 | 0 |
| VAW-125 | 09922 | 1 | 0 | 0 | 0 | 0 | 0 |
| VAW-126 | 09963 | 1 | 0 | 0 | 0 | 0 | 0 |
| VAW-78 | 09102 | 1 | 0 | 0 | 0 | 0 | 0 |
| VF-101 | 09067 | 1 | 0 | 0 | 0 | 0 | 0 |
| VF-102 | 09717 | 1 | 0 | 0 | 0 | 0 | 0 |
| VF-103 | 09718 | 1 | 0 | 0 | 0 | 0 | 0 |
| VF-11 | 09560 | 1 | 0 | 0 | 0 | 0 | 0 |
| VF-143 | 09281 | 1 | 0 | 0 | 0 | 0 | 0 |
| VF-2 | 09113 | 1 | 0 | 0 | 0 | 0 | 0 |
| VF-213 | 09934 | 1 | 0 | 0 | 0 | 0 | 0 |
| VF-31 | 09473 | 1 | 0 | 0 | 0 | 0 | 0 |
| VF-32 | 09053 | 1 | 0 | 0 | 0 | 0 | 0 |
| VF-41 | 09774 | 1 | 0 | 0 | 0 | 0 | 0 |
| VFA-105 | 65183 | 1 | 0 | 0 | 0 | 0 | 0 |
| VFA-106 | 09679 | 1 | 0 | 0 | 0 | 0 | 0 |
| VFA-131 | 63934 | 1 | 0 | 0 | 0 | 0 | 0 |
| VFA-136 | 55141 | 1 | 0 | 0 | 0 | 0 | 0 |
| VFA-15 | 09015 | 1 | 0 | 0 | 0 | 0 | 0 |
| VFA-203 | 09030 | 1 | 0 | 0 | 0 | 0 | 0 |

II.A.1.a. OPERATIONAL AND FLEET SUPPORT ACTIVITY ACTIVATION SCHEDULE

SOURCE: Total Force Manpower Management System

DATE: July 2001

| ACTIVITY | UIC | PFYs | CFY02 | FY03 | FY04 | FY05 | FY06 |
|------------------------------|-------|------|-------|------|------|------|------|
| VFA-204 | 09032 | 1 | 0 | 0 | 0 | 0 | 0 |
| VFA-34 | 09070 | 1 | 0 | 0 | 0 | 0 | 0 |
| VFA-37 | 09478 | 1 | 0 | 0 | 0 | 0 | 0 |
| VFA-81 | 09221 | 1 | 0 | 0 | 0 | 0 | 0 |
| VFA-82 | 09122 | 1 | 0 | 0 | 0 | 0 | 0 |
| VFA-83 | 09223 | 1 | 0 | 0 | 0 | 0 | 0 |
| VFA-86 | 09943 | 1 | 0 | 0 | 0 | 0 | 0 |
| VFA-87 | 63922 | 1 | 0 | 0 | 0 | 0 | 0 |
| VMFA-312 | 09253 | 1 | 0 | 0 | 0 | 0 | 0 |
| VS-22 | 09287 | 1 | 0 | 0 | 0 | 0 | 0 |
| VS-24 | 09629 | 1 | 0 | 0 | 0 | 0 | 0 |
| VS-30 | 09226 | 1 | 0 | 0 | 0 | 0 | 0 |
| VS-31 | 09573 | 1 | 0 | 0 | 0 | 0 | 0 |
| VS-32 | 09353 | 1 | 0 | 0 | 0 | 0 | 0 |
| CVW-11 | 09734 | 1 | 0 | 0 | 0 | 0 | 0 |
| CVW-2 | 09742 | 1 | 0 | 0 | 0 | 0 | 0 |
| CVW-5 | 09733 | 1 | 0 | 0 | 0 | 0 | 0 |
| CVW-9 | 09738 | 1 | 0 | 0 | 0 | 0 | 0 |
| USS Abraham Lincoln (CVN 72) | 21297 | 1 | 0 | 0 | 0 | 0 | 0 |
| USS Belleau Wood (LHA 3) | 20633 | 1 | 0 | 0 | 0 | 0 | 0 |
| USS Bonhomme Richard (LHD 6) | 22202 | 1 | 0 | 0 | 0 | 0 | 0 |
| USS Boxer (LHD 4) | 21808 | 1 | 0 | 0 | 0 | 0 | 0 |
| USS Carl Vinson (CVN 70) | 20993 | 1 | 0 | 0 | 0 | 0 | 0 |
| USS Constellation (CV 64) | 03364 | 1 | 0 | 0 | 0 | 0 | 0 |
| USS Essex (LHD 2) | 21533 | 1 | 0 | 0 | 0 | 0 | 0 |
| USS John C. Stennis (CVN 74) | 21847 | 1 | 0 | 0 | 0 | 0 | 0 |
| USS Kitty Hawk (CV 63) | 03363 | 1 | 0 | 0 | 0 | 0 | 0 |
| USS Nimitz (CVN 68) | 03368 | 1 | 0 | 0 | 0 | 0 | 0 |
| USS Peleliu (LHA 5) | 20748 | 1 | 0 | 0 | 0 | 0 | 0 |
| USS Tarawa (LHA 1) | 20550 | 1 | 0 | 0 | 0 | 0 | 0 |
| VAQ-112 | 09458 | 1 | 0 | 0 | 0 | 0 | 0 |
| VAQ-129 | 09995 | 1 | 0 | 0 | 0 | 0 | 0 |
| VAW-112 | 09458 | 1 | 0 | 0 | 0 | 0 | 0 |
| VAW-113 | 09459 | 1 | 0 | 0 | 0 | 0 | 0 |
| VAW-113 | 09459 | 1 | 0 | 0 | 0 | 0 | 0 |
| VAW-115 | 09463 | 1 | 0 | 0 | 0 | 0 | 0 |
| VAW-115 | 09463 | 1 | 0 | 0 | 0 | 0 | 0 |
| VAW-116 | 09465 | 1 | 0 | 0 | 0 | 0 | 0 |
| VAW-116 | 09465 | 1 | 0 | 0 | 0 | 0 | 0 |
| VAW-117 | 09985 | 1 | 0 | 0 | 0 | 0 | 0 |
| VAW-117 | 09985 | 1 | 0 | 0 | 0 | 0 | 0 |
| VF-154 | 09678 | 1 | 0 | 0 | 0 | 0 | 0 |
| VFA-113 | 09092 | 1 | 0 | 0 | 0 | 0 | 0 |
| VFA-115 | 09604 | 1 | 0 | 0 | 0 | 0 | 0 |
| VFA-122 | 09355 | 1 | 0 | 0 | 0 | 0 | 0 |
| VFA-125 | 09485 | 1 | 0 | 0 | 0 | 0 | 0 |
| VFA-137 | 55142 | 1 | 0 | 0 | 0 | 0 | 0 |

II.A.1.a. OPERATIONAL AND FLEET SUPPORT ACTIVITY ACTIVATION SCHEDULE

SOURCE: Total Force Manpower Management System

DATE: July 2001

| ACTIVITY | UIC | PFYs | CFY02 | FY03 | FY04 | FY05 | FY06 |
|--|------------|-------------|--------------|-------------|-------------|-------------|-------------|
| VFA-146 | 09063 | 1 | 0 | 0 | 0 | 0 | 0 |
| VFA-147 | 63925 | 1 | 0 | 0 | 0 | 0 | 0 |
| VFA-151 | 09558 | 1 | 0 | 0 | 0 | 0 | 0 |
| VFA-192 | 09076 | 1 | 0 | 0 | 0 | 0 | 0 |
| VFA-195 | 09706 | 1 | 0 | 0 | 0 | 0 | 0 |
| VFA-201 | 09309 | 1 | 0 | 0 | 0 | 0 | 0 |
| VFA-22 | 09561 | 1 | 0 | 0 | 0 | 0 | 0 |
| VFA-25 | 09637 | 1 | 0 | 0 | 0 | 0 | 0 |
| VFA-27 | 65185 | 1 | 0 | 0 | 0 | 0 | 0 |
| VFA-94 | 09295 | 1 | 0 | 0 | 0 | 0 | 0 |
| VFA-97 | 63923 | 1 | 0 | 0 | 0 | 0 | 0 |
| VS-21 | 09739 | 1 | 0 | 0 | 0 | 0 | 0 |
| VS-29 | 09204 | 1 | 0 | 0 | 0 | 0 | 0 |
| VS-33 | 09263 | 1 | 0 | 0 | 0 | 0 | 0 |
| VS-35 | 09345 | 1 | 0 | 0 | 0 | 0 | 0 |
| VS-38 | 09192 | 1 | 0 | 0 | 0 | 0 | 0 |
| VS-41 | 09298 | 1 | 0 | 0 | 0 | 0 | 0 |
| TOTAL: | | 105 | 1 | 0 | 0 | 0 | 0 |
| OPERATIONAL ACTIVITIES - USMC | | | | | | | |
| VFMA-115 | 09234 | 1 | 0 | 0 | 0 | 0 | 0 |
| VMAQ-1 | 41345 | 1 | 0 | 0 | 0 | 0 | 0 |
| VMAQ-2 | 42362 | 1 | 0 | 0 | 0 | 0 | 0 |
| VMAQ-3 | 42363 | 1 | 0 | 0 | 0 | 0 | 0 |
| VMAQ-4 | 67837 | 1 | 0 | 0 | 0 | 0 | 0 |
| VMFA-122 | 09407 | 1 | 0 | 0 | 0 | 0 | 0 |
| VMFA-224 | 09501 | 1 | 0 | 0 | 0 | 0 | 0 |
| VMFA-251 | 09241 | 1 | 0 | 0 | 0 | 0 | 0 |
| VMFA-332 | 09193 | 1 | 0 | 0 | 0 | 0 | 0 |
| VMFA-533 | 60169 | 1 | 0 | 0 | 0 | 0 | 0 |
| VFMA-242 | 31200 | 1 | 0 | 0 | 0 | 0 | 0 |
| VMFA-121 | 09257 | 1 | 0 | 0 | 0 | 0 | 0 |
| VMFA-212 | 09112 | 1 | 0 | 0 | 0 | 0 | 0 |
| VMFA-225 | 09232 | 1 | 0 | 0 | 0 | 0 | 0 |
| VMFA-232 | 09242 | 1 | 0 | 0 | 0 | 0 | 0 |
| VMFA-314 | 09230 | 1 | 0 | 0 | 0 | 0 | 0 |
| VMFA-323 | 09235 | 1 | 0 | 0 | 0 | 0 | 0 |
| VMFAT-101 | 53900 | 1 | 0 | 0 | 0 | 0 | 0 |
| TOTAL: | | 18 | 0 | 0 | 0 | 0 | 0 |
| FLEET SUPPORT ACTIVITIES - NAVY | | | | | | | |
| Landing Signal Officer School | 68788 | 1 | 0 | 0 | 0 | 0 | 0 |
| NALF Chesapeake | 30774 | 1 | 0 | 0 | 0 | 0 | 0 |
| NAMTRAU Norfolk | 66046 | 1 | 0 | 0 | 0 | 0 | 0 |
| NAS Cecil Field | 60200 | 1 | 0 | 0 | 0 | 0 | 0 |
| NAS Jacksonville | 00207 | 1 | 0 | 0 | 0 | 0 | 0 |
| NAS Oceana | 60191 | 1 | 0 | 0 | 0 | 0 | 0 |

II.A.1.a. OPERATIONAL AND FLEET SUPPORT ACTIVITY ACTIVATION SCHEDULE

SOURCE: Total Force Manpower Management System

DATE: July 2001

| ACTIVITY | UIC | PFYs | CFY02 | FY03 | FY04 | FY05 | FY06 |
|---|------------|-------------|--------------|-------------|-------------|-------------|-------------|
| Naval Safety Center | 48570 | 1 | 0 | 0 | 0 | 0 | 0 |
| NAWCAD Lakehurst | 68335 | 1 | 0 | 0 | 0 | 0 | 0 |
| NAWCAD St. Inigoes | 64485 | 1 | 0 | 0 | 0 | 0 | 0 |
| NS Roosevelt Roads, Puerto Rico | 00389 | 1 | 0 | 0 | 0 | 0 | 0 |
| NS Rota, Spain | 62863 | 1 | 0 | 0 | 0 | 0 | 0 |
| NSA Naples, Italy | 62588 | 1 | 0 | 0 | 0 | 0 | 0 |
| Strike Test Squadron | 39783 | 1 | 0 | 0 | 0 | 0 | 0 |
| Supervisor of Shipbuilding Newport News | 62793 | 1 | 0 | 0 | 0 | 0 | 0 |
| VT-4 | 0395A | 1 | 0 | 0 | 0 | 0 | 0 |
| VT-7 | 0398A | 1 | 0 | 0 | 0 | 0 | 0 |
| VT-9 | 09177 | 1 | 0 | 0 | 0 | 0 | 0 |
| COMNAVAIRPAC San Diego | 57025 | 1 | 0 | 0 | 0 | 0 | 0 |
| FACSFAC Pearl Harbor | 43583 | 1 | 0 | 0 | 0 | 0 | 0 |
| FASOTRAGRUPAC | 35947 | 1 | 0 | 0 | 0 | 0 | 0 |
| NAF Atsugi, Japan | 62507 | 1 | 0 | 0 | 0 | 0 | 0 |
| NAF Misawa, Japan | 68212 | 1 | 0 | 0 | 0 | 0 | 0 |
| NALF San Clemente Island | 31466 | 1 | 0 | 0 | 0 | 0 | 0 |
| NAMTRAU North Island | 66065 | 1 | 0 | 0 | 0 | 0 | 0 |
| NAS Kingsville | 30776 | 1 | 0 | 0 | 0 | 0 | 0 |
| NAS Lemoore | 63042 | 1 | 0 | 0 | 0 | 0 | 0 |
| NAS Point Mugu | 0429A | 1 | 0 | 0 | 0 | 0 | 0 |
| NAWCWD China Lake | 60530 | 1 | 0 | 0 | 0 | 0 | 0 |
| TACRON-12 DET Sasebo, Japan | 55623 | 1 | 0 | 0 | 0 | 0 | 0 |
| VT-21 | 0400A | 1 | 0 | 0 | 0 | 0 | 0 |
| VT-22 | 0401A | 1 | 0 | 0 | 0 | 0 | 0 |
| TOTAL: | | 31 | 0 | 0 | 0 | 0 | 0 |

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

| ACTIVITY, UIC, PHASING INCREMENT | BILLETS | | DESIG/ RATING | PNEC/ PMOS | SNEC/ SMOS |
|---|---------|-----|------------------|---------------|---------------|
| | OFF | ENL | | | |
| OPERATIONAL ACTIVITIES - NAVY | | | | | |
| CVW-1, 09732 | | | | | |
| ACDU | 2 | 0 | 1312 | | |
| ACTIVITY TOTAL: | 2 | 0 | | | |
| CVW-17, 09745 | | | | | |
| ACDU | 2 | 0 | 1312 | | |
| ACTIVITY TOTAL: | 2 | 0 | | | |
| CVW-3, 09731 | | | | | |
| ACDU | 2 | 0 | 1312 | | |
| ACTIVITY TOTAL: | 2 | 0 | | | |
| CVW-7, 09736 | | | | | |
| ACDU | 2 | 0 | 1312 | | |
| ACTIVITY TOTAL: | 2 | 0 | | | |
| CVW-8, 09748 | | | | | |
| ACDU | 2 | 0 | 1312 | | |
| ACTIVITY TOTAL: | 2 | 0 | | | |
| CVWR-20, 09393 | | | | | |
| SELRES | 2 | 0 | 1312 | | |
| ACTIVITY TOTAL: | 2 | 0 | | | |
| USS Bataan (LHD 5), 21879 | | | | | |
| ACDU | 0 | 1 | ACC | 6903 | |
| | 0 | 1 | AC1 | 6903 | |
| | 0 | 7 | AC2 | 6903 | |
| | 0 | 3 | AC3 | 6903 | |
| | 0 | 1 | IC1 | 4779 | |
| | 0 | 1 | IC1 | 4779 | 4728 |
| | 0 | 1 | IC2 | 4779 | |
| ACTIVITY TOTAL: | 0 | 15 | | | |
| USS Dwight D. Eisenhower (CVN 69), 03369 | | | | | |
| ACDU | 1 | 0 | 6310 | | |
| | 0 | 1 | ABECS | 7005 | |
| | 0 | 1 | ABECS | 7006 | |
| | 0 | 3 | ABEC | 7004 | |

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

| ACTIVITY, UIC, PHASING INCREMENT | BILLETS | | DESIG/ RATING | PNEC/ PMOS | SNEC/ SMOS | |
|----------------------------------|---------------------------------------|----------|------------------|---------------|---------------|--|
| | OFF | ENL | | | | |
| ACDU | 0 | 2 | ABEC | 7005 | | |
| | 0 | 1 | ABEC | 7006 | | |
| | 0 | 8 | ABE1 | 7004 | | |
| | 0 | 5 | ABE1 | 7005 | | |
| | 0 | 2 | ABE1 | 7006 | | |
| | 0 | 3 | ABE2 | | | |
| | 0 | 15 | ABE2 | 7004 | | |
| | 0 | 4 | ABE2 | 7005 | | |
| | 0 | 1 | ABE2 | 7005 | 9595 | |
| | 0 | 42 | ABE3 | | | |
| | 0 | 27 | ABEAN | | | |
| | 0 | 1 | ACCS | 6902 | | |
| | 0 | 1 | ACC | 6902 | | |
| | 0 | 4 | AC1 | 6902 | | |
| | 0 | 10 | AC2 | 6902 | | |
| | 0 | 8 | AC3 | 6902 | | |
| | 0 | 1 | AZ1 | | | |
| | 0 | 1 | AZ3 | | | |
| | 0 | 1 | EM1 | 4672 | | |
| | 0 | 1 | EM2 | 4672 | | |
| | 0 | 2 | EM3 | 4672 | | |
| | 0 | 1 | ICC | 4745 | | |
| | 0 | 4 | IC1 | 4743 | | |
| | 0 | 1 | IC1 | 4745 | | |
| | 0 | 1 | IC2 | 4743 | | |
| | 0 | 2 | IC2 | 4745 | | |
| | 0 | 3 | IC3 | 4743 | | |
| | 0 | 88 | AN | | | |
| | ACTIVITY TOTAL: | 1 | 245 | | | |
| | USS Enterprise (CVN 65), 03365 | | | | | |
| | ACDU | 1 | 0 | 6310 | | |
| | | 0 | 2 | ABECS | 7006 | |
| | 0 | 5 | ABEC | 7004 | | |
| | 0 | 3 | ABEC | 7005 | | |
| | 0 | 2 | ABEC | 7006 | | |
| | 0 | 11 | ABE1 | 7004 | | |
| | 0 | 2 | ABE1 | 7005 | | |
| | 0 | 3 | ABE1 | 7006 | | |
| | 0 | 3 | ABE2 | | | |
| | 0 | 8 | ABE2 | 7004 | | |
| | 0 | 8 | ABE2 | 7005 | | |
| | 0 | 42 | ABE3 | | | |
| | 0 | 32 | ABEAN | | | |
| | 0 | 1 | ACCS | 6902 | | |
| | 0 | 1 | ACC | 6902 | | |
| | 0 | 4 | AC1 | 6902 | | |

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

| ACTIVITY, UIC, PHASING INCREMENT | BILLETS | | DESIG/ RATING | PNEC/ PMOS | SNEC/ SMOS | |
|----------------------------------|--|----------|------------------|---------------|---------------|--|
| | OFF | ENL | | | | |
| ACDU | 0 | 11 | AC2 | 6902 | | |
| | 0 | 6 | AC3 | 6902 | | |
| | 0 | 1 | AZ1 | | | |
| | 0 | 1 | AZ3 | | | |
| | 0 | 1 | EM1 | 4672 | | |
| | 0 | 1 | EM2 | 4672 | | |
| | 0 | 2 | EM3 | 4672 | | |
| | 0 | 1 | ICC | 4745 | | |
| | 0 | 2 | IC1 | 4743 | | |
| | 0 | 1 | IC1 | 4745 | | |
| | 0 | 1 | IC2 | 4743 | | |
| | 0 | 2 | IC2 | 4745 | | |
| | 0 | 1 | IC3 | 4743 | | |
| | 0 | 1 | IC3 | 4745 | | |
| | 0 | 88 | AN | | | |
| | ACTIVITY TOTAL: | 1 | 247 | | | |
| | USS George Washington (CVN 73), 21412 | | | | | |
| | ACDU | 1 | 0 | 6310 | | |
| 0 | | 2 | ABECS | 7006 | | |
| 0 | | 5 | ABEC | 7004 | | |
| 0 | | 3 | ABEC | 7005 | | |
| 0 | | 2 | ABEC | 7006 | | |
| 0 | | 11 | ABE1 | 7004 | | |
| 0 | | 2 | ABE1 | 7005 | | |
| 0 | | 3 | ABE1 | 7006 | | |
| 0 | | 3 | ABE2 | | | |
| 0 | | 8 | ABE2 | 7004 | | |
| 0 | | 8 | ABE2 | 7005 | | |
| 0 | | 42 | ABE3 | | | |
| 0 | | 27 | ABEAN | | | |
| 0 | | 1 | ACCS | 6902 | | |
| 0 | | 1 | ACC | 6902 | | |
| 0 | | 4 | AC1 | 6902 | | |
| 0 | | 11 | AC2 | 6902 | | |
| 0 | | 6 | AC3 | 6902 | | |
| 0 | | 1 | AZ1 | | | |
| 0 | | 1 | AZ3 | | | |
| 0 | | 1 | EM1 | 4672 | | |
| 0 | | 1 | EM2 | 4672 | | |
| 0 | | 2 | EM3 | 4672 | | |
| 0 | | 1 | ICC | 4745 | | |
| 0 | | 3 | IC1 | 4743 | | |
| 0 | | 1 | IC1 | 4745 | | |
| 0 | | 1 | IC2 | 4745 | | |
| 0 | | 1 | IC3 | 4745 | | |
| 0 | | 88 | AN | | | |

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

| ACTIVITY, UIC, PHASING INCREMENT | BILLETS | | DESIG/ RATING | PNEC/ PMOS | SNEC/ SMOS |
|--|---------|-----|------------------|---------------|---------------|
| | OFF | ENL | | | |
| ACTIVITY TOTAL: | 1 | 240 | | | |
| USS Harry S. Truman (CVN 75), 21853 | | | | | |
| ACDU | 1 | 0 | 6310 | | |
| | 0 | 2 | ABECS | 7006 | |
| | 0 | 5 | ABEC | 7004 | |
| | 0 | 3 | ABEC | 7005 | |
| | 0 | 2 | ABEC | 7006 | |
| | 0 | 11 | ABE1 | 7004 | |
| | 0 | 2 | ABE1 | 7005 | |
| | 0 | 3 | ABE1 | 7006 | |
| | 0 | 3 | ABE2 | | |
| | 0 | 8 | ABE2 | 7004 | |
| | 0 | 8 | ABE2 | 7005 | |
| | 0 | 42 | ABE3 | | |
| | 0 | 27 | ABEAN | | |
| | 0 | 1 | ACCS | 6902 | |
| | 0 | 1 | ACC | 6902 | |
| | 0 | 4 | AC1 | 6902 | |
| | 0 | 11 | AC2 | 6902 | |
| | 0 | 6 | AC3 | 6902 | |
| | 0 | 1 | AZ1 | | |
| | 0 | 1 | AZ3 | | |
| | 0 | 1 | EM1 | 4672 | |
| | 0 | 1 | EM2 | 4672 | |
| | 0 | 2 | EM3 | 4672 | |
| | 0 | 1 | ICC | 4745 | |
| | 0 | 3 | IC1 | 4743 | |
| | 0 | 1 | IC1 | 4745 | |
| | 0 | 1 | IC2 | 4745 | |
| | 0 | 1 | IC3 | 4745 | |
| | 0 | 88 | AN | | |
| ACTIVITY TOTAL: | 1 | 240 | | | |
| USS Iwo Jima (LHD 7), 23027 | | | | | |
| ACDU | 0 | 1 | ACC | 6903 | |
| | 0 | 1 | AC1 | 6903 | |
| | 0 | 7 | AC2 | 6903 | |
| | 0 | 3 | AC3 | 6903 | |
| | 0 | 1 | IC1 | 4779 | |
| | 0 | 1 | IC1 | 4779 | 4728 |
| | 0 | 1 | IC2 | 4779 | |
| ACTIVITY TOTAL: | 0 | 15 | | | |
| USS John F. Kennedy (CV 67), 03367 | | | | | |

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

| ACTIVITY, UIC, PHASING INCREMENT | BILLETS | | DESIG/ RATING | PNEC/ PMOS | SNEC/ SMOS | |
|----------------------------------|-------------------------------------|-----|------------------|---------------|---------------|--|
| | OFF | ENL | | | | |
| ACDU | 1 | 0 | 6310 | | | |
| | 0 | 2 | ABECS | 7006 | | |
| | 0 | 5 | ABEC | 7004 | | |
| | 0 | 3 | ABEC | 7005 | | |
| | 0 | 2 | ABEC | 7006 | | |
| | 0 | 11 | ABE1 | 7004 | | |
| | 0 | 2 | ABE1 | 7005 | | |
| | 0 | 3 | ABE1 | 7006 | | |
| | 0 | 3 | ABE2 | | | |
| | 0 | 8 | ABE2 | 7004 | | |
| | 0 | 8 | ABE2 | 7005 | | |
| | 0 | 40 | ABE3 | | | |
| | 0 | 28 | ABEAN | | | |
| | 0 | 1 | ACCS | 6902 | | |
| | 0 | 1 | ACC | 6902 | | |
| | 0 | 4 | AC1 | 6902 | | |
| | 0 | 11 | AC2 | 6902 | | |
| | 0 | 6 | AC3 | 6902 | | |
| | 0 | 1 | AZ1 | | | |
| | 0 | 1 | AZ3 | | | |
| | 0 | 1 | EM1 | 4672 | | |
| | 0 | 1 | EM2 | 4672 | | |
| | 0 | 2 | EM3 | 4672 | | |
| | 0 | 1 | ICC | 4745 | | |
| | 0 | 3 | IC1 | 4743 | | |
| | 0 | 1 | IC1 | 4745 | | |
| | 0 | 1 | IC2 | 4743 | | |
| | 0 | 1 | IC2 | 4745 | | |
| | 0 | 1 | IC3 | 4743 | | |
| | 0 | 1 | IC3 | 4745 | | |
| | 0 | 86 | AN | | | |
| | ACTIVITY TOTAL: | 1 | 239 | | | |
| | USS Kearsarge (LHD 3), 21700 | | | | | |
| ACDU | 0 | 1 | ACC | 6903 | | |
| | 0 | 1 | AC1 | 6903 | | |
| | 0 | 7 | AC2 | 6903 | | |
| | 0 | 3 | AC3 | 6903 | | |
| | 0 | 1 | IC1 | 4779 | | |
| | 0 | 1 | IC1 | 4779 | 4728 | |
| | 0 | 1 | IC2 | 4779 | | |
| ACTIVITY TOTAL: | 0 | 15 | | | | |
| USS Nassau (LHA 4), 20725 | | | | | | |
| ACDU | 0 | 1 | ACC | 6903 | | |
| | 0 | 1 | AC1 | 6903 | | |

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

| ACTIVITY, UIC, PHASING INCREMENT | BILLETS | | DESIG/ RATING | PNEC/ PMOS | SNEC/ SMOS |
|--|------------------------|-----|------------------|---------------|---------------|
| | OFF | ENL | | | |
| ACDU | 0 | 7 | AC2 | 6903 | |
| | 0 | 3 | AC3 | 6903 | |
| | 0 | 1 | IC1 | 4779 | 4728 |
| | 0 | 1 | IC2 | 4756 | 4779 |
| ACTIVITY TOTAL: | 0 | 14 | | | |
| USS Ronald Reagan (CVN 76), 22178, FY03 Increment | | | | | |
| ACDU | 1 | 0 | 6310 | | |
| | 0 | 2 | ABECS | 7006 | |
| | 0 | 5 | ABEC | 7004 | |
| | 0 | 3 | ABEC | 7005 | |
| | 0 | 2 | ABEC | 7006 | |
| | 0 | 11 | ABE1 | 7004 | |
| | 0 | 2 | ABE1 | 7005 | |
| | 0 | 3 | ABE1 | 7006 | |
| | 0 | 3 | ABE2 | | |
| | 0 | 8 | ABE2 | 7004 | |
| | 0 | 8 | ABE2 | 7005 | |
| | 0 | 42 | ABE3 | | |
| | 0 | 27 | ABEAN | | |
| | 0 | 1 | ACCS | 6902 | |
| | 0 | 1 | ACC | 6902 | |
| | 0 | 4 | AC1 | 6902 | |
| | 0 | 11 | AC2 | 6902 | |
| | 0 | 6 | AC3 | 6902 | |
| | 0 | 1 | AZ1 | | |
| | 0 | 1 | AZ3 | | |
| | 0 | 1 | EM1 | 4672 | |
| | 0 | 1 | EM2 | 4672 | |
| | 0 | 2 | EM3 | 4672 | |
| | 0 | 1 | ICC | 4745 | |
| | 0 | 3 | IC1 | 4743 | |
| | 0 | 1 | IC1 | 4745 | |
| | 0 | 1 | IC2 | 4745 | |
| | 0 | 1 | IC3 | 4745 | |
| | 0 | 88 | AN | | |
| | ACTIVITY TOTAL: | 1 | 240 | | |
| USS Saipan (LHA 2), 20632 | | | | | |
| ACDU | 0 | 1 | ACC | 6903 | |
| | 0 | 1 | AC1 | 6903 | |
| | 0 | 7 | AC2 | 6903 | |
| | 0 | 3 | AC3 | 6903 | |
| | 0 | 1 | IC1 | 4779 | 4728 |
| | 0 | 1 | IC2 | 4756 | 4779 |

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

| ACTIVITY, UIC, PHASING INCREMENT | BILLETS | | DESIG/ RATING | PNEC/ PMOS | SNEC/ SMOS |
|---|---------|-----|------------------|---------------|---------------|
| | OFF | ENL | | | |
| ACTIVITY TOTAL: | 0 | 14 | | | |
| USS Theodore Roosevelt (CVN 71), 21247 | | | | | |
| ACDU | 1 | 0 | 6310 | | |
| | 0 | 2 | ABECS | 7006 | |
| | 0 | 5 | ABEC | 7004 | |
| | 0 | 3 | ABEC | 7005 | |
| | 0 | 2 | ABEC | 7006 | |
| | 0 | 11 | ABE1 | 7004 | |
| | 0 | 2 | ABE1 | 7005 | |
| | 0 | 3 | ABE1 | 7006 | |
| | 0 | 3 | ABE2 | | |
| | 0 | 8 | ABE2 | 7004 | |
| | 0 | 8 | ABE2 | 7005 | |
| | 0 | 42 | ABE3 | | |
| | 0 | 27 | ABEAN | | |
| | 0 | 1 | ACCS | 6902 | |
| | 0 | 1 | ACC | 6902 | |
| | 0 | 4 | AC1 | 6902 | |
| | 0 | 11 | AC2 | 6902 | |
| | 0 | 6 | AC3 | 6902 | |
| | 0 | 1 | AZ1 | | |
| | 0 | 1 | AZ3 | | |
| | 0 | 1 | EM1 | 4672 | |
| | 0 | 1 | EM2 | 4672 | |
| | 0 | 2 | EM3 | 4672 | |
| | 0 | 1 | ICC | 4745 | |
| | 0 | 3 | IC1 | 4743 | |
| | 0 | 1 | IC1 | 4745 | |
| | 0 | 1 | IC2 | 4745 | |
| | 0 | 1 | IC3 | 4745 | |
| | 0 | 88 | AN | | |
| ACTIVITY TOTAL: | 1 | 240 | | | |
| USS Wasp (LHD 1), 21560 | | | | | |
| ACDU | 0 | 1 | ACC | 6903 | |
| | 0 | 1 | AC1 | 6903 | |
| | 0 | 7 | AC2 | 6903 | |
| | 0 | 3 | AC3 | 6903 | |
| | 0 | 1 | IC1 | 4779 | |
| | 0 | 1 | IC1 | 4779 | 4728 |
| | 0 | 1 | IC2 | 4779 | |
| ACTIVITY TOTAL: | 0 | 15 | | | |
| VAW-120, 09527 | | | | | |
| ACDU | 4 | 0 | 1312 | | |

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

| ACTIVITY, UIC, PHASING INCREMENT | BILLETS | | DESIG/ RATING | PNEC/ PMOS | SNEC/ SMOS |
|----------------------------------|---------|-----|------------------|---------------|---------------|
| | OFF | ENL | | | |
| ACTIVITY TOTAL: | 4 | 0 | | | |
| VAW-121, 09467 | | | | | |
| ACDU | 2 | 0 | 1311 | | |
| ACTIVITY TOTAL: | 2 | 0 | | | |
| VAW-123, 09477 | | | | | |
| ACDU | 2 | 0 | 1311 | | |
| ACTIVITY TOTAL: | 2 | 0 | | | |
| VAW-124, 09526 | | | | | |
| ACDU | 2 | 0 | 1311 | | |
| ACTIVITY TOTAL: | 2 | 0 | | | |
| VAW-125, 09922 | | | | | |
| ACDU | 2 | 0 | 1311 | | |
| ACTIVITY TOTAL: | 2 | 0 | | | |
| VAW-126, 09963 | | | | | |
| ACDU | 2 | 0 | 1311 | | |
| ACTIVITY TOTAL: | 2 | 0 | | | |
| VAW-78, 09102 | | | | | |
| SELRES | 2 | 0 | 1311 | | |
| ACTIVITY TOTAL: | 2 | 0 | | | |
| VF-101, 09067 | | | | | |
| ACDU | 7 | 0 | 1312 | | |
| ACTIVITY TOTAL: | 7 | 0 | | | |
| VF-102, 09717 | | | | | |
| ACDU | 2 | 0 | 1311 | | |
| ACTIVITY TOTAL: | 2 | 0 | | | |
| VF-103, 09718 | | | | | |
| ACDU | 2 | 0 | 1311 | | |
| ACTIVITY TOTAL: | 2 | 0 | | | |

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

| ACTIVITY, UIC, PHASING INCREMENT | BILLETS | | DESIG/ RATING | PNEC/ PMOS | SNEC/ SMOS |
|----------------------------------|---------|-----|------------------|---------------|---------------|
| | OFF | ENL | | | |
| VF-11, 09560 | | | | | |
| ACDU | 2 | 0 | 1311 | | |
| ACTIVITY TOTAL: | 2 | 0 | | | |
| VF-143, 09281 | | | | | |
| ACDU | 2 | 0 | 1311 | | |
| ACTIVITY TOTAL: | 2 | 0 | | | |
| VF-2, 09113 | | | | | |
| ACDU | 2 | 0 | 1311 | | |
| ACTIVITY TOTAL: | 2 | 0 | | | |
| VF-213, 09934 | | | | | |
| ACDU | 2 | 0 | 1311 | | |
| ACTIVITY TOTAL: | 2 | 0 | | | |
| VF-31, 09473 | | | | | |
| ACDU | 2 | 0 | 1311 | | |
| ACTIVITY TOTAL: | 2 | 0 | | | |
| VF-32, 09053 | | | | | |
| ACDU | 2 | 0 | 1311 | | |
| ACTIVITY TOTAL: | 2 | 0 | | | |
| VF-41, 09774 | | | | | |
| ACDU | 2 | 0 | 1311 | | |
| ACTIVITY TOTAL: | 2 | 0 | | | |
| VFA-105, 65183 | | | | | |
| ACDU | 2 | 0 | 1311 | | |
| ACTIVITY TOTAL: | 2 | 0 | | | |
| VFA-106, 09679 | | | | | |
| ACDU | 6 | 0 | 1312 | | |
| ACTIVITY TOTAL: | 6 | 0 | | | |
| VFA-131, 63934 | | | | | |
| ACDU | 2 | 0 | 1311 | | |

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

| ACTIVITY, UIC, PHASING INCREMENT | BILLETS | | DESIG/ RATING | PNEC/ PMOS | SNEC/ SMOS |
|----------------------------------|---------|-----|------------------|---------------|---------------|
| | OFF | ENL | | | |
| ACTIVITY TOTAL: | 2 | 0 | | | |
| VFA-136, 55141 | | | | | |
| ACDU | 2 | 0 | 1311 | | |
| ACTIVITY TOTAL: | 2 | 0 | | | |
| VFA-15, 09015 | | | | | |
| ACDU | 2 | 0 | 1311 | | |
| ACTIVITY TOTAL: | 2 | 0 | | | |
| VFA-203, 09030 | | | | | |
| SELRES | 2 | 0 | 1311 | | |
| ACTIVITY TOTAL: | 2 | 0 | | | |
| VFA-204, 09032 | | | | | |
| SELRES | 2 | 0 | 1311 | | |
| ACTIVITY TOTAL: | 2 | 0 | | | |
| VFA-34, 09070 | | | | | |
| ACDU | 2 | 0 | 1311 | | |
| ACTIVITY TOTAL: | 2 | 0 | | | |
| VFA-37, 09478 | | | | | |
| ACDU | 2 | 0 | 1311 | | |
| ACTIVITY TOTAL: | 2 | 0 | | | |
| VFA-81, 09221 | | | | | |
| ACDU | 2 | 0 | 1311 | | |
| ACTIVITY TOTAL: | 2 | 0 | | | |
| VFA-82, 09122 | | | | | |
| ACDU | 2 | 0 | 1311 | | |
| ACTIVITY TOTAL: | 2 | 0 | | | |
| VFA-83, 09223 | | | | | |
| ACDU | 2 | 0 | 1311 | | |
| ACTIVITY TOTAL: | 2 | 0 | | | |
| VFA-86, 09943 | | | | | |

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

| ACTIVITY, UIC, PHASING INCREMENT | BILLETS | | DESIG/ RATING | PNEC/ PMOS | SNEC/ SMOS |
|----------------------------------|---------|-----|------------------|---------------|---------------|
| | OFF | ENL | | | |
| ACDU | 2 | 0 | 1311 | | |
| ACTIVITY TOTAL: | 2 | 0 | | | |
| VFA-87, 63922 | | | | | |
| ACDU | 2 | 0 | 1311 | | |
| ACTIVITY TOTAL: | 2 | 0 | | | |
| VMFA-312, 09253 | | | | | |
| USMC | 2 | 0 | 7593 | | |
| ACTIVITY TOTAL: | 2 | 0 | | | |
| VS-22, 09287 | | | | | |
| ACDU | 2 | 0 | 1311 | | |
| ACTIVITY TOTAL: | 2 | 0 | | | |
| VS-24, 09629 | | | | | |
| ACDU | 2 | 0 | 1311 | | |
| ACTIVITY TOTAL: | 2 | 0 | | | |
| VS-30, 09226 | | | | | |
| ACDU | 2 | 0 | 1311 | | |
| ACTIVITY TOTAL: | 2 | 0 | | | |
| VS-31, 09573 | | | | | |
| ACDU | 2 | 0 | 1311 | | |
| ACTIVITY TOTAL: | 2 | 0 | | | |
| VS-32, 09353 | | | | | |
| ACDU | 2 | 0 | 1311 | | |
| ACTIVITY TOTAL: | 2 | 0 | | | |
| CVW-11, 09734 | | | | | |
| ACDU | 2 | 0 | 1312 | | |
| ACTIVITY TOTAL: | 2 | 0 | | | |
| CVW-2, 09742 | | | | | |
| ACDU | 2 | 0 | 1312 | | |

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

| ACTIVITY, UIC, PHASING INCREMENT | BILLETS | | DESIG/ RATING | PNEC/ PMOS | SNEC/ SMOS |
|--|---------|-----|------------------|---------------|---------------|
| | OFF | ENL | | | |
| ACTIVITY TOTAL: | 2 | 0 | | | |
| CVW-5, 09733 | | | | | |
| ACDU | 3 | 0 | 1312 | | |
| ACTIVITY TOTAL: | 3 | 0 | | | |
| CVW-9, 09738 | | | | | |
| ACDU | 2 | 0 | 1312 | | |
| ACTIVITY TOTAL: | 2 | 0 | | | |
| USS Abraham Lincoln (CVN 72), 21297 | | | | | |
| ACDU | 1 | 0 | 6310 | | |
| | 0 | 2 | ABECS | 7006 | |
| | 0 | 5 | ABEC | 7004 | |
| | 0 | 3 | ABEC | 7005 | |
| | 0 | 2 | ABEC | 7006 | |
| | 0 | 11 | ABE1 | 7004 | |
| | 0 | 2 | ABE1 | 7005 | |
| | 0 | 3 | ABE1 | 7006 | |
| | 0 | 3 | ABE2 | | |
| | 0 | 8 | ABE2 | 7004 | |
| | 0 | 8 | ABE2 | 7005 | |
| | 0 | 42 | ABE3 | | |
| | 0 | 27 | ABEAN | | |
| | 0 | 1 | ACCS | 6902 | |
| | 0 | 1 | ACC | 6902 | |
| | 0 | 4 | AC1 | 6902 | |
| | 0 | 11 | AC2 | 6902 | |
| | 0 | 6 | AC3 | 6902 | |
| | 0 | 1 | AZ1 | | |
| | 0 | 1 | AZ3 | | |
| | 0 | 1 | EM1 | 4672 | |
| | 0 | 1 | EM2 | 4672 | |
| | 0 | 2 | EM3 | 4672 | |
| | 0 | 1 | ICC | 4745 | |
| | 0 | 3 | IC1 | 4743 | |
| | 0 | 1 | IC1 | 4745 | |
| | 0 | 1 | IC2 | 4745 | |
| | 0 | 1 | IC3 | 4745 | |
| | 0 | 88 | AN | | |
| ACTIVITY TOTAL: | 1 | 240 | | | |
| USS Belleau Wood (LHA 3), 20633 | | | | | |
| ACDU | 0 | 1 | ACC | 6903 | |
| | 0 | 1 | AC1 | 6903 | |

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

| ACTIVITY, UIC, PHASING INCREMENT | BILLETS | | DESIG/ RATING | PNEC/ PMOS | SNEC/ SMOS |
|--|---------|-----|------------------|---------------|---------------|
| | OFF | ENL | | | |
| ACDU | 0 | 7 | AC2 | 6903 | |
| | 0 | 3 | AC3 | 6903 | |
| | 0 | 1 | IC1 | 4779 | 4728 |
| | 0 | 1 | IC2 | 4756 | 4779 |
| ACTIVITY TOTAL: | 0 | 14 | | | |
| USS Bonhomme Richard (LHD 6), 22202 | | | | | |
| ACDU | 0 | 1 | ACC | 6903 | |
| | 0 | 1 | AC1 | 6903 | |
| | 0 | 7 | AC2 | 6903 | |
| | 0 | 3 | AC3 | 6903 | |
| | 0 | 1 | IC1 | 4779 | |
| | 0 | 1 | IC1 | 4779 | 4728 |
| | 0 | 1 | IC2 | 4779 | |
| ACTIVITY TOTAL: | 0 | 15 | | | |
| USS Boxer (LHD 4), 21808 | | | | | |
| ACDU | 0 | 1 | ACC | 6903 | |
| | 0 | 1 | AC1 | 6903 | |
| | 0 | 7 | AC2 | 6903 | |
| | 0 | 3 | AC3 | 6903 | |
| | 0 | 1 | IC1 | 4779 | |
| | 0 | 1 | IC1 | 4779 | 4728 |
| | 0 | 1 | IC2 | 4779 | |
| ACTIVITY TOTAL: | 0 | 15 | | | |
| USS Carl Vinson (CVN 70), 20993 | | | | | |
| ACDU | 1 | 0 | 6310 | | |
| | 0 | 2 | ABECS | 7006 | |
| | 0 | 5 | ABEC | 7004 | |
| | 0 | 3 | ABEC | 7005 | |
| | 0 | 2 | ABEC | 7006 | |
| | 0 | 11 | ABE1 | 7004 | |
| | 0 | 2 | ABE1 | 7005 | |
| | 0 | 3 | ABE1 | 7006 | |
| | 0 | 3 | ABE2 | | |
| | 0 | 14 | ABE2 | 7004 | |
| | 0 | 8 | ABE2 | 7005 | |
| | 0 | 42 | ABE3 | | |
| | 0 | 27 | ABEAN | | |
| | 0 | 1 | ACCS | 6902 | |
| | 0 | 1 | ACC | 6902 | |
| | 0 | 4 | AC1 | 6902 | |
| | 0 | 11 | AC2 | 6902 | |
| | 0 | 6 | AC3 | 6902 | |

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

| ACTIVITY, UIC, PHASING INCREMENT | BILLETS | | DESIG/ RATING | PNEC/ PMOS | SNEC/ SMOS | |
|----------------------------------|---|----------|------------------|---------------|---------------|--|
| | OFF | ENL | | | | |
| ACDU | 0 | 1 | AZ1 | | | |
| | 0 | 1 | AZ3 | | | |
| | 0 | 1 | EM1 | 4672 | | |
| | 0 | 1 | EM2 | 4672 | | |
| | 0 | 2 | EM3 | 4672 | | |
| | 0 | 1 | ICC | 4745 | | |
| | 0 | 3 | IC1 | 4743 | | |
| | 0 | 1 | IC1 | 4745 | | |
| | 0 | 1 | IC2 | 4745 | | |
| | 0 | 1 | IC3 | 4745 | | |
| | 0 | 88 | AN | | | |
| | ACTIVITY TOTAL: | 1 | 246 | | | |
| | USS Constellation (CV 64), 03364 | | | | | |
| ACDU | 1 | 0 | 6310 | | | |
| | 0 | 2 | ABECS | 7006 | | |
| | 0 | 5 | ABEC | 7004 | | |
| | 0 | 3 | ABEC | 7005 | | |
| | 0 | 2 | ABEC | 7006 | | |
| | 0 | 11 | ABE1 | 7004 | | |
| | 0 | 2 | ABE1 | 7005 | | |
| | 0 | 3 | ABE1 | 7006 | | |
| | 0 | 3 | ABE2 | | | |
| | 0 | 8 | ABE2 | 7004 | | |
| | 0 | 8 | ABE2 | 7005 | | |
| | 0 | 40 | ABE3 | | | |
| | 0 | 29 | ABEAN | | | |
| | 0 | 1 | ACCS | 6902 | | |
| | 0 | 1 | ACC | 6902 | | |
| | 0 | 4 | AC1 | 6902 | | |
| | 0 | 11 | AC2 | 6902 | | |
| | 0 | 6 | AC3 | 6902 | | |
| | 0 | 1 | AZ1 | | | |
| | 0 | 1 | AZ3 | | | |
| | 0 | 1 | EM1 | 4672 | | |
| | 0 | 1 | EM2 | 4672 | | |
| | 0 | 2 | EM3 | 4672 | | |
| | 0 | 1 | ICC | 4745 | | |
| | 0 | 2 | IC1 | 4743 | | |
| | 0 | 1 | IC1 | 4745 | | |
| | 0 | 1 | IC2 | 4743 | | |
| | 0 | 2 | IC2 | 4745 | | |
| | 0 | 2 | IC3 | 4743 | | |
| | 0 | 1 | IC3 | 4745 | | |
| | 0 | 86 | AN | | | |

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

| ACTIVITY, UIC, PHASING INCREMENT | BILLETS | | DESIG/ RATING | PNEC/ PMOS | SNEC/ SMOS |
|--|---------|-----|------------------|---------------|---------------|
| | OFF | ENL | | | |
| ACTIVITY TOTAL: | 1 | 241 | | | |
| USS Essex (LHD 2), 21533 | | | | | |
| ACDU | 0 | 1 | ACC | 6903 | |
| | 0 | 1 | AC1 | 6903 | |
| | 0 | 7 | AC2 | 6903 | |
| | 0 | 3 | AC3 | 6903 | |
| | 0 | 1 | IC1 | 4779 | |
| | 0 | 1 | IC1 | 4779 | 4728 |
| | 0 | 1 | IC2 | 4779 | |
| ACTIVITY TOTAL: | 0 | 15 | | | |
| USS John C. Stennis (CVN 74), 21847 | | | | | |
| ACDU | 1 | 0 | 6310 | | |
| | 0 | 2 | ABECS | 7006 | |
| | 0 | 5 | ABEC | 7004 | |
| | 0 | 3 | ABEC | 7005 | |
| | 0 | 2 | ABEC | 7006 | |
| | 0 | 11 | ABE1 | 7004 | |
| | 0 | 2 | ABE1 | 7005 | |
| | 0 | 3 | ABE1 | 7006 | |
| | 0 | 3 | ABE2 | | |
| | 0 | 8 | ABE2 | 7004 | |
| | 0 | 8 | ABE2 | 7005 | |
| | 0 | 42 | ABE3 | | |
| | 0 | 27 | ABEAN | | |
| | 0 | 1 | ACCS | 6902 | |
| | 0 | 1 | ACC | 6902 | |
| | 0 | 4 | AC1 | 6902 | |
| | 0 | 11 | AC2 | 6902 | |
| | 0 | 6 | AC3 | 6902 | |
| | 0 | 1 | AZ1 | | |
| | 0 | 1 | AZ3 | | |
| | 0 | 1 | EM1 | 4672 | |
| | 0 | 1 | EM2 | 4672 | |
| | 0 | 2 | EM3 | 4672 | |
| | 0 | 1 | ICC | 4745 | |
| | 0 | 3 | IC1 | 4743 | |
| | 0 | 1 | IC1 | 4745 | |
| | 0 | 1 | IC2 | 4745 | |
| | 0 | 1 | IC3 | 4745 | |
| | 0 | 88 | AN | | |
| ACTIVITY TOTAL: | 1 | 240 | | | |
| USS Kitty Hawk (CV 63), 03363 | | | | | |
| ACDU | 1 | 0 | 6310 | | |

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

| ACTIVITY, UIC, PHASING INCREMENT | BILLETS | | DESIG/ RATING | PNEC/ PMOS | SNEC/ SMOS | |
|----------------------------------|-----------------------------------|----------|------------------|---------------|---------------|--|
| | OFF | ENL | | | | |
| ACDU | 0 | 2 | ABECS | 7006 | | |
| | 0 | 5 | ABEC | 7004 | | |
| | 0 | 3 | ABEC | 7005 | | |
| | 0 | 2 | ABEC | 7006 | | |
| | 0 | 11 | ABE1 | 7004 | | |
| | 0 | 2 | ABE1 | 7005 | | |
| | 0 | 3 | ABE1 | 7006 | | |
| | 0 | 3 | ABE2 | | | |
| | 0 | 8 | ABE2 | 7004 | | |
| | 0 | 8 | ABE2 | 7005 | | |
| | 0 | 38 | ABE3 | | | |
| | 0 | 31 | ABEAN | | | |
| | 0 | 1 | ACCS | 6902 | | |
| | 0 | 1 | ACC | 6902 | | |
| | 0 | 4 | AC1 | 6902 | | |
| | 0 | 11 | AC2 | 6902 | | |
| | 0 | 6 | AC3 | 6902 | | |
| | 0 | 1 | AZ1 | | | |
| | 0 | 1 | AZ3 | | | |
| | 0 | 1 | EM1 | 4672 | | |
| | 0 | 1 | EM2 | 4672 | | |
| | 0 | 2 | EM3 | 4672 | | |
| | 0 | 1 | ICC | 4745 | | |
| | 0 | 3 | IC1 | 4743 | | |
| | 0 | 1 | IC1 | 4745 | | |
| | 0 | 1 | IC2 | 4743 | | |
| | 0 | 1 | IC2 | 4745 | | |
| | 0 | 1 | IC3 | 4743 | | |
| | 0 | 1 | IC3 | 4745 | | |
| | 0 | 89 | AN | | | |
| | ACTIVITY TOTAL: | 1 | 243 | | | |
| | USS Nimitz (CVN 68), 03368 | | | | | |
| | ACDU | 1 | 0 | 6310 | | |
| | 0 | 1 | ABECS | 7004 | | |
| | 0 | 1 | ABECS | 7005 | | |
| | 0 | 1 | ABECS | 7006 | | |
| | 0 | 2 | ABEC | 7004 | | |
| | 0 | 2 | ABEC | 7005 | | |
| | 0 | 1 | ABEC | 7006 | | |
| | 0 | 8 | ABE1 | 7004 | | |
| | 0 | 3 | ABE1 | 7005 | | |
| | 0 | 2 | ABE1 | 7006 | | |
| | 0 | 3 | ABE2 | | | |
| | 0 | 13 | ABE2 | 7004 | | |
| | 0 | 6 | ABE2 | 7005 | | |
| | 0 | 1 | ABE2 | 7005 | 9595 | |

II.A.1.b. BILLETTS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

| ACTIVITY, UIC, PHASING INCREMENT | BILLETS | | DESIG/ RATING | PNEC/ PMOS | SNEC/ SMOS |
|-----------------------------------|---------|-----|------------------|---------------|---------------|
| | OFF | ENL | | | |
| ACDU | 0 | 42 | ABE3 | | |
| | 0 | 27 | ABEAN | | |
| | 0 | 1 | ACCS | 6902 | |
| | 0 | 1 | ACC | 6902 | |
| | 0 | 4 | AC1 | 6902 | |
| | 0 | 11 | AC2 | 6902 | |
| | 0 | 6 | AC3 | 6902 | |
| | 0 | 1 | AZ1 | | |
| | 0 | 1 | AZ3 | | |
| | 0 | 1 | EM1 | 4672 | |
| | 0 | 1 | EM2 | 4672 | |
| | 0 | 2 | EM3 | 4672 | |
| | 0 | 1 | ICC | 4745 | |
| | 0 | 2 | IC1 | 4743 | |
| | 0 | 1 | IC1 | 4745 | |
| | 0 | 1 | IC2 | 4743 | |
| | 0 | 2 | IC2 | 4745 | |
| | 0 | 2 | IC3 | 4743 | |
| | 0 | 1 | IC3 | 4745 | |
| | 0 | 88 | AN | | |
| ACTIVITY TOTAL: | 1 | 240 | | | |
| USS Peleliu (LHA 5), 20748 | | | | | |
| ACDU | 0 | 1 | ACC | 6903 | |
| | 0 | 1 | AC1 | 6903 | |
| | 0 | 7 | AC2 | 6903 | |
| | 0 | 3 | AC3 | 6903 | |
| | 0 | 1 | IC1 | 4779 | 4728 |
| | 0 | 1 | IC2 | 4756 | 4779 |
| ACTIVITY TOTAL: | 0 | 14 | | | |
| USS Tarawa (LHA 1), 20550 | | | | | |
| ACDU | 0 | 1 | ACC | 6903 | |
| | 0 | 1 | AC1 | 6903 | |
| | 0 | 7 | AC2 | 6903 | |
| | 0 | 3 | AC3 | 6903 | |
| | 0 | 1 | IC1 | 4779 | 4728 |
| | 0 | 1 | IC2 | 4756 | 4779 |
| ACTIVITY TOTAL: | 0 | 14 | | | |
| VAQ-112, 09458 | | | | | |
| ACDU | 1 | 0 | 1311 | | |
| ACTIVITY TOTAL: | 1 | 0 | | | |

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

| ACTIVITY, UIC, PHASING INCREMENT | BILLETS | | DESIG/ RATING | PNEC/ PMOS | SNEC/ SMOS |
|----------------------------------|---------|-----|------------------|---------------|---------------|
| | OFF | ENL | | | |
| VAQ-129, 09995 | | | | | |
| ACDU | 4 | 0 | 1312 | | |
| ACTIVITY TOTAL: | 4 | 0 | | | |
| VAW-112, 09458 | | | | | |
| ACDU | 1 | 0 | 1311 | | |
| ACTIVITY TOTAL: | 1 | 0 | | | |
| VAW-113, 09459 | | | | | |
| ACDU | 1 | 0 | 1311 | | |
| | 1 | 0 | 1311 | | |
| ACTIVITY TOTAL: | 2 | 0 | | | |
| VAW-115, 09463 | | | | | |
| ACDU | 1 | 0 | 1311 | | |
| | 1 | 0 | 1311 | | |
| ACTIVITY TOTAL: | 2 | 0 | | | |
| VAW-116, 09465 | | | | | |
| ACDU | 1 | 0 | 1311 | | |
| | 1 | 0 | 1311 | | |
| ACTIVITY TOTAL: | 2 | 0 | | | |
| VAW-117, 09985 | | | | | |
| ACDU | 1 | 0 | 1311 | | |
| | 1 | 0 | 1311 | | |
| ACTIVITY TOTAL: | 2 | 0 | | | |
| VF-154, 09678 | | | | | |
| ACDU | 2 | 0 | 1311 | | |
| ACTIVITY TOTAL: | 2 | 0 | | | |
| VFA-113, 09092 | | | | | |
| ACDU | 2 | 0 | 1311 | | |
| ACTIVITY TOTAL: | 2 | 0 | | | |
| VFA-115, 09604 | | | | | |
| ACDU | 2 | 0 | 1311 | | |

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

| ACTIVITY, UIC, PHASING INCREMENT | BILLETS | | DESIG/ RATING | PNEC/ PMOS | SNEC/ SMOS |
|----------------------------------|---------|-----|------------------|---------------|---------------|
| | OFF | ENL | | | |
| ACTIVITY TOTAL: | 2 | 0 | | | |
| VFA-122, 09355 | | | | | |
| ACDU | 6 | 0 | 1312 | | |
| ACTIVITY TOTAL: | 6 | 0 | | | |
| VFA-125, 09485 | | | | | |
| ACDU | 6 | 0 | 1312 | | |
| ACTIVITY TOTAL: | 6 | 0 | | | |
| VFA-137, 55142 | | | | | |
| ACDU | 2 | 0 | 1311 | | |
| ACTIVITY TOTAL: | 2 | 0 | | | |
| VFA-146, 09063 | | | | | |
| ACDU | 2 | 0 | 1311 | | |
| ACTIVITY TOTAL: | 2 | 0 | | | |
| VFA-147, 63925 | | | | | |
| ACDU | 2 | 0 | 1311 | | |
| ACTIVITY TOTAL: | 2 | 0 | | | |
| VFA-151, 09558 | | | | | |
| ACDU | 2 | 0 | 1311 | | |
| ACTIVITY TOTAL: | 2 | 0 | | | |
| VFA-192, 09076 | | | | | |
| ACDU | 2 | 0 | 1311 | | |
| ACTIVITY TOTAL: | 2 | 0 | | | |
| VFA-195, 09706 | | | | | |
| ACDU | 2 | 0 | 1311 | | |
| ACTIVITY TOTAL: | 2 | 0 | | | |
| VFA-201, 09309 | | | | | |
| SELRES | 2 | 0 | 1311 | | |
| ACTIVITY TOTAL: | 2 | 0 | | | |
| VFA-22, 09561 | | | | | |

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

| ACTIVITY, UIC, PHASING INCREMENT | BILLETS | | DESIG/ RATING | PNEC/ PMOS | SNEC/ SMOS |
|----------------------------------|---------|-----|------------------|---------------|---------------|
| | OFF | ENL | | | |
| ACDU | 2 | 0 | 1311 | | |
| ACTIVITY TOTAL: | 2 | 0 | | | |
| VFA-25, 09637 | | | | | |
| ACDU | 2 | 0 | 1311 | | |
| ACTIVITY TOTAL: | 2 | 0 | | | |
| VFA-27, 65185 | | | | | |
| ACDU | 2 | 0 | 1311 | | |
| ACTIVITY TOTAL: | 2 | 0 | | | |
| VFA-94, 09295 | | | | | |
| ACDU | 2 | 0 | 1311 | | |
| ACTIVITY TOTAL: | 2 | 0 | | | |
| VFA-97, 63923 | | | | | |
| ACDU | 2 | 0 | 1311 | | |
| ACTIVITY TOTAL: | 2 | 0 | | | |
| VS-21, 09739 | | | | | |
| ACDU | 2 | 0 | 1311 | | |
| ACTIVITY TOTAL: | 2 | 0 | | | |
| VS-29, 09204 | | | | | |
| ACDU | 2 | 0 | 1311 | | |
| ACTIVITY TOTAL: | 2 | 0 | | | |
| VS-33, 09263 | | | | | |
| ACDU | 2 | 0 | 1311 | | |
| ACTIVITY TOTAL: | 2 | 0 | | | |
| VS-35, 09345 | | | | | |
| ACDU | 2 | 0 | 1311 | | |
| ACTIVITY TOTAL: | 2 | 0 | | | |
| VS-38, 09192 | | | | | |
| ACDU | 2 | 0 | 1311 | | |

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

| ACTIVITY, UIC, PHASING INCREMENT | BILLETS | | DESIG/ RATING | PNEC/ PMOS | SNEC/ SMOS |
|----------------------------------|---------|-----|------------------|---------------|---------------|
| | OFF | ENL | | | |
| ACTIVITY TOTAL: | 2 | 0 | | | |
| VS-41, 09298 | | | | | |
| ACDU | 6 | 0 | 1312 | | |
| ACTIVITY TOTAL: | 6 | 0 | | | |
| OPERATIONAL ACTIVITIES - USMC | | | | | |
| VFMA-115, 09234 | | | | | |
| USMC | 2 | 0 | 7593 | | |
| ACTIVITY TOTAL: | 2 | 0 | | | |
| VMAQ-1, 41345 | | | | | |
| USMC | 2 | 0 | 7593 | | |
| ACTIVITY TOTAL: | 2 | 0 | | | |
| VMAQ-2, 42362 | | | | | |
| USMC | 2 | 0 | 7593 | | |
| ACTIVITY TOTAL: | 2 | 0 | | | |
| VMAQ-3, 42363 | | | | | |
| USMC | 2 | 0 | 7593 | | |
| ACTIVITY TOTAL: | 2 | 0 | | | |
| VMAQ-4, 67837 | | | | | |
| USMC | 2 | 0 | 7593 | | |
| ACTIVITY TOTAL: | 2 | 0 | | | |
| VMFA-122, 09407 | | | | | |
| USMC | 2 | 0 | 7593 | | |
| ACTIVITY TOTAL: | 2 | 0 | | | |
| VMFA-224, 09501 | | | | | |
| USMC | 2 | 0 | 7593 | | |
| ACTIVITY TOTAL: | 2 | 0 | | | |
| VMFA-251, 09241 | | | | | |
| USMC | 2 | 0 | 7593 | | |

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

| ACTIVITY, UIC, PHASING INCREMENT | BILLETS | | DESIG/ RATING | PNEC/ PMOS | SNEC/ SMOS |
|----------------------------------|---------|-----|------------------|---------------|---------------|
| | OFF | ENL | | | |
| ACTIVITY TOTAL: | 2 | 0 | | | |
| VMFA-332, 09193 USMC | 2 | 0 | 7593 | | |
| ACTIVITY TOTAL: | 2 | 0 | | | |
| VMFA-533, 60169 USMC | 2 | 0 | 7593 | | |
| ACTIVITY TOTAL: | 2 | 0 | | | |
| VFMA-242, 31200 USMC | 2 | 0 | 7593 | | |
| ACTIVITY TOTAL: | 2 | 0 | | | |
| VMFA-121, 09257 USMC | 2 | 0 | 7593 | | |
| ACTIVITY TOTAL: | 2 | 0 | | | |
| VMFA-212, 09112 USMC | 2 | 0 | 7593 | | |
| ACTIVITY TOTAL: | 2 | 0 | | | |
| VMFA-225, 09232 USMC | 2 | 0 | 7593 | | |
| ACTIVITY TOTAL: | 2 | 0 | | | |
| VMFA-232, 09242 USMC | 2 | 0 | 7593 | | |
| ACTIVITY TOTAL: | 2 | 0 | | | |
| VMFA-314, 09230 USMC | 2 | 0 | 7593 | | |
| ACTIVITY TOTAL: | 2 | 0 | | | |
| VMFA-323, 09235 USMC | 2 | 0 | 7593 | | |
| ACTIVITY TOTAL: | 2 | 0 | | | |

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

| ACTIVITY, UIC, PHASING INCREMENT | BILLETS | | DESIG/ RATING | PNEC/ PMOS | SNEC/ SMOS |
|---|----------|-----------|------------------|---------------|---------------|
| | OFF | ENL | | | |
| VMFAT-101, 53900 | | | | | |
| USMC | 6 | 0 | 7594 | | |
| ACTIVITY TOTAL: | 6 | 0 | | | |
| FLEET SUPPORT ACTIVITIES - NAVY | | | | | |
| Landing Signal Officer School, 68788 | | | | | |
| ACDU | 3 | 0 | 1312 | | |
| ACTIVITY TOTAL: | 3 | 0 | | | |
| NALF Chesapeake, 30774 | | | | | |
| ACDU | 0 | 1 | IC2 | 4745 | |
| ACTIVITY TOTAL: | 0 | 1 | | | |
| NAMTRAU Norfolk, 66046 | | | | | |
| ACDU | 0 | 1 | ABECS | 7006 | 9502 |
| | 0 | 1 | ABEC | 7006 | 9502 |
| | 0 | 1 | ABE1 | 7006 | 9502 |
| ACTIVITY TOTAL: | 0 | 3 | | | |
| NAS Cecil Field, 60200 | | | | | |
| ACDU | 0 | 1 | ACCS | 6902 | |
| | 0 | 3 | ACC | 6902 | |
| | 0 | 13 | AC1 | 6902 | |
| | 0 | 25 | AC2 | 6902 | |
| | 0 | 11 | AC3 | 6902 | |
| | 0 | 10 | ACAN | 6902 | |
| ACTIVITY TOTAL: | 0 | 63 | | | |
| NAS Jacksonville, 00207 | | | | | |
| ACDU | 0 | 1 | ACCS | 6901 | 6902 |
| | 0 | 2 | ACC | 6901 | 6902 |
| | 0 | 20 | AC1 | 6901 | 6902 |
| | 0 | 18 | AC2 | 6901 | 6902 |
| | 0 | 10 | AC3 | 6901 | 6902 |
| ACTIVITY TOTAL: | 0 | 51 | | | |
| NAS Oceana, 60191 | | | | | |
| ACDU | 0 | 1 | IC1 | 4745 | |
| | 0 | 2 | IC2 | 4745 | |
| | 0 | 3 | IC3 | 4745 | |
| ACTIVITY TOTAL: | 0 | 6 | | | |

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

| ACTIVITY, UIC, PHASING INCREMENT | BILLETS | | DESIG/ RATING | PNEC/ PMOS | SNEC/ SMOS |
|---|----------|-----------|------------------|---------------|---------------|
| | OFF | ENL | | | |
| Naval Safety Center, 48570 | | | | | |
| ACDU | 0 | 1 | ACCS | 6902 | |
| ACTIVITY TOTAL: | 0 | 1 | | | |
| NAWCAD Lakehurst, 68335 | | | | | |
| ACDU | 3 | 0 | 6310 | | |
| | 0 | 1 | ABEC | 7004 | 7005 |
| | 0 | 2 | ABEC | 7006 | |
| | 0 | 1 | ABE1 | 7004 | |
| | 0 | 2 | ABE1 | 7005 | |
| | 0 | 1 | ABE1 | 7006 | |
| | 0 | 6 | ABE2 | 7004 | |
| | 0 | 2 | ABE2 | 7005 | |
| | 0 | 2 | ABE2 | 7005 | 7004 |
| ACTIVITY TOTAL: | 3 | 17 | | | |
| NAWCAD St. Inigoes, 64485 | | | | | |
| ACDU | 0 | 1 | ACCM | 6902 | |
| | 0 | 1 | ACC | 6902 | |
| | 0 | 1 | ACC | 6902 | 6901 |
| ACTIVITY TOTAL: | 0 | 3 | | | |
| NS Roosevelt Roads, Puerto Rico, 00389 | | | | | |
| ACDU | 0 | 2 | ABE1 | 7005 | |
| | 0 | 2 | ABE2 | 7005 | |
| ACTIVITY TOTAL: | 0 | 4 | | | |
| NS Rota, Spain, 62863 | | | | | |
| ACDU | 0 | 2 | ABE2 | 7005 | |
| ACTIVITY TOTAL: | 0 | 2 | | | |
| NSA Naples, Italy, 62588 | | | | | |
| ACDU | 0 | 1 | ABE1 | 7006 | 9598 |
| ACTIVITY TOTAL: | 0 | 1 | | | |
| Strike Test Squadron, 39783 | | | | | |
| ACDU | 1 | 0 | 1312 | | |
| | 1 | 0 | 6310 | | |
| | 0 | 1 | ABEC | 7004 | 7005 |
| | 0 | 1 | ABE1 | 7004 | |

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

| ACTIVITY, UIC, PHASING INCREMENT | BILLETS | | DESIG/ RATING | PNEC/ PMOS | SNEC/ SMOS |
|---|----------|----------|------------------|---------------|---------------|
| | OFF | ENL | | | |
| ACDU | 0 | 1 | ABE1 | 7005 | |
| ACTIVITY TOTAL: | 2 | 3 | | | |
| Supervisor of Shipbuilding Newport News, 62793 | | | | | |
| ACDU | 0 | 1 | ABEC | 7006 | |
| ACTIVITY TOTAL: | 0 | 1 | | | |
| VT-4, 0395A | | | | | |
| ACDU | 4 | 0 | 1312 | | |
| SELRES | 1 | 0 | 1312 | | |
| ACTIVITY TOTAL: | 5 | 0 | | | |
| VT-7, 0398A | | | | | |
| ACDU | 1 | 0 | 1312 | | |
| ACTIVITY TOTAL: | 1 | 0 | | | |
| COMNAVAIRPAC San Diego, 57025 | | | | | |
| ACDU | 1 | 0 | 1312 | | |
| | 0 | 1 | ABECS | 7004 | |
| | 0 | 1 | ACCS | 6902 | |
| ACTIVITY TOTAL: | 1 | 2 | | | |
| FACSFAC Pearl Harbor, 43583 | | | | | |
| ACDU | 0 | 4 | AC1 | 6902 | |
| ACTIVITY TOTAL: | 0 | 4 | | | |
| FASOTRAGRUPAC, 35947 | | | | | |
| ACDU | 0 | 1 | ACCS | 6902 | |
| ACTIVITY TOTAL: | 0 | 1 | | | |
| NAF Atsugi, Japan, 62507 | | | | | |
| ACDU | 0 | 1 | IC2 | 4745 | |
| SELRES | 0 | 2 | IC3 | 4745 | |
| ACTIVITY TOTAL: | 0 | 3 | | | |
| NAF Misawa, Japan, 68212 | | | | | |
| SELRES | 0 | 1 | IC3 | 4745 | |
| ACTIVITY TOTAL: | 0 | 1 | | | |

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

| ACTIVITY, UIC, PHASING INCREMENT | BILLETS | | DESIG/ RATING | PNEC/ PMOS | SNEC/ SMOS |
|---|----------|-----------|------------------|---------------|---------------|
| | OFF | ENL | | | |
| NALF San Clemente Island, 31466 | | | | | |
| ACDU | 0 | 1 | ACCM | 6902 | |
| | 0 | 2 | ACC | 6902 | |
| | 0 | 4 | AC1 | 6902 | |
| | 0 | 10 | AC2 | 6902 | |
| | 0 | 7 | AC3 | 6902 | |
| | 0 | 2 | ACAN | 6902 | |
| ACTIVITY TOTAL: | 0 | 26 | | | |
| NAMTRAU North Island, 66065 | | | | | |
| ACDU | 0 | 2 | ABEC | 7006 | 9502 |
| | 0 | 3 | ABE1 | 7006 | 9502 |
| ACTIVITY TOTAL: | 0 | 5 | | | |
| NAS Kingsville, 30776 | | | | | |
| ACDU | 0 | 1 | ABE1 | 7005 | |
| SELRES | 0 | 1 | ABE1 | 7005 | |
| ACTIVITY TOTAL: | 0 | 2 | | | |
| NAS Lemoore, 63042 | | | | | |
| ACDU | 0 | 1 | ABECS | 7006 | |
| | 0 | 1 | ABE1 | 7005 | 7006 |
| | 0 | 1 | ACCM | 6901 | 6902 |
| ACTIVITY TOTAL: | 0 | 3 | | | |
| NAS Point Mugu, 0429A | | | | | |
| ACDU | 0 | 2 | IC2 | 4745 | |
| ACTIVITY TOTAL: | 0 | 2 | | | |
| NAWCWD China Lake, 60530 | | | | | |
| ACDU | 0 | 1 | IC2 | 4745 | |
| ACTIVITY TOTAL: | 0 | 1 | | | |
| TACRON-12 DET Sasebo, Japan, 55623 | | | | | |
| ACDU | 0 | 1 | AC3 | 6903 | |
| ACTIVITY TOTAL: | 0 | 1 | | | |

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

| ACTIVITY, UIC, PHASING INCREMENT | BILLETS | | DESIG/ RATING | PNEC/ PMOS | SNEC/ SMOS |
|----------------------------------|----------|----------|------------------|---------------|---------------|
| | OFF | ENL | | | |
| VT-21, 0400A | | | | | |
| ACDU | 4 | 0 | 1312 | | |
| SELRES | 1 | 0 | 1312 | | |
| ACTIVITY TOTAL: | 5 | 0 | | | |
| VT-22, 0401A | | | | | |
| ACDU | 4 | 0 | 1312 | | |
| ACTIVITY TOTAL: | 4 | 0 | | | |

II.A.1.c. TOTAL BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

| DESIG/ RATING | PNEC/SNEC PMOS/SMOS | PFYs | | CFY02 | | FY03 | | FY04 | | FY05 | | FY06 | |
|------------------------------------|------------------------|------|------|-------|-----|------|-----|------|-----|------|-----|------|-----|
| | | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL |
| NAVY OPERATIONAL ACTIVITIES - ACDU | | | | | | | | | | | | | |
| 1311 | | 108 | | 0 | | 0 | | 0 | | 0 | | 0 | |
| 1312 | | 58 | | 0 | | 0 | | 0 | | 0 | | 0 | |
| 6310 | | 12 | | 0 | | 1 | | 0 | | 0 | | 0 | |
| ABECS | 7004 | | 1 | | 0 | | 0 | | 0 | | 0 | | 0 |
| ABECS | 7005 | | 2 | | 0 | | 0 | | 0 | | 0 | | 0 |
| ABECS | 7006 | | 22 | | 0 | | 2 | | 0 | | 0 | | 0 |
| ABEC | 7004 | | 55 | | 0 | | 5 | | 0 | | 0 | | 0 |
| ABEC | 7005 | | 34 | | 0 | | 3 | | 0 | | 0 | | 0 |
| ABEC | 7006 | | 22 | | 0 | | 2 | | 0 | | 0 | | 0 |
| ABE1 | 7004 | | 126 | | 0 | | 11 | | 0 | | 0 | | 0 |
| ABE1 | 7005 | | 28 | | 0 | | 2 | | 0 | | 0 | | 0 |
| ABE1 | 7006 | | 34 | | 0 | | 3 | | 0 | | 0 | | 0 |
| ABE2 | | | 36 | | 0 | | 3 | | 0 | | 0 | | 0 |
| ABE2 | 7004 | | 114 | | 0 | | 8 | | 0 | | 0 | | 0 |
| ABE2 | 7005 | | 90 | | 0 | | 8 | | 0 | | 0 | | 0 |
| ABE2 | 7005 | 9595 | 2 | | 0 | | 0 | | 0 | | 0 | | 0 |
| ABE3 | | | 496 | | 0 | | 42 | | 0 | | 0 | | 0 |
| ABEAN | | | 336 | | 0 | | 27 | | 0 | | 0 | | 0 |
| ACCS | 6902 | | 12 | | 0 | | 1 | | 0 | | 0 | | 0 |
| ACC | 6902 | | 12 | | 0 | | 1 | | 0 | | 0 | | 0 |
| ACC | 6903 | | 12 | | 0 | | 0 | | 0 | | 0 | | 0 |
| AC1 | 6902 | | 48 | | 0 | | 4 | | 0 | | 0 | | 0 |
| AC1 | 6903 | | 12 | | 0 | | 0 | | 0 | | 0 | | 0 |
| AC2 | 6902 | | 131 | | 0 | | 11 | | 0 | | 0 | | 0 |
| AC2 | 6903 | | 84 | | 0 | | 0 | | 0 | | 0 | | 0 |
| AC3 | 6902 | | 74 | | 0 | | 6 | | 6 | | 0 | | 0 |
| AC3 | 6903 | | 36 | | 0 | | 0 | | 0 | | 0 | | 0 |
| AZ1 | | | 12 | | 0 | | 1 | | 0 | | 0 | | 0 |
| AZ3 | | | 12 | | 0 | | 1 | | 0 | | 0 | | 0 |
| EM1 | 4672 | | 12 | | 0 | | 1 | | 0 | | 0 | | 0 |
| EM2 | 4672 | | 12 | | 0 | | 1 | | 0 | | 0 | | 0 |
| EM3 | 4672 | | 24 | | 0 | | 2 | | 0 | | 0 | | 0 |
| ICC | 4745 | | 12 | | 0 | | 1 | | 0 | | 0 | | 0 |
| IC1 | 4743 | | 34 | | 0 | | 3 | | 0 | | 0 | | 0 |
| IC1 | 4745 | | 12 | | 0 | | 1 | | 0 | | 0 | | 0 |
| IC1 | 4779 | | 7 | | 0 | | 0 | | 0 | | 0 | | 0 |
| IC1 | 4779 | 4728 | 12 | | 0 | | 0 | | 0 | | 0 | | 0 |
| IC2 | 4743 | | 6 | | 0 | | 0 | | 0 | | 0 | | 0 |
| IC2 | 4745 | | 16 | | 0 | | 1 | | 0 | | 0 | | 0 |
| IC2 | 4756 | 4779 | 5 | | 0 | | 0 | | 0 | | 0 | | 0 |
| IC2 | 4779 | | 7 | | 0 | | 0 | | 0 | | 0 | | 0 |
| IC3 | 4743 | | 10 | | 0 | | 0 | | 0 | | 0 | | 0 |
| IC3 | 4745 | | 11 | | 0 | | 1 | | 0 | | 0 | | 0 |
| AN | | | 1053 | | 0 | | 88 | | 0 | | 0 | | 0 |

II.A.1.c. TOTAL BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

| DESIG/ RATING | PNEC/SNEC PMOS/SMOS | PFYs | | CFY02 | | FY03 | | FY04 | | FY05 | | FY06 | |
|--------------------------------------|------------------------|------|-----|-------|-----|------|-----|------|-----|------|-----|------|-----|
| | | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL |
| NAVY OPERATIONAL ACTIVITIES - SELRES | | | | | | | | | | | | | |
| 1311 | | 8 | | 0 | | 0 | | 0 | | 0 | | 0 | |
| 1312 | | 2 | | 0 | | 0 | | 0 | | 0 | | 0 | |
| NAVY OPERATIONAL ACTIVITIES - USMC | | | | | | | | | | | | | |
| 7593 | | 2 | | 0 | | 0 | | 0 | | 0 | | 0 | |
| USMC OPERATIONAL ACTIVITIES - USMC | | | | | | | | | | | | | |
| 7593 | | 34 | | 0 | | 0 | | 0 | | 0 | | 0 | |
| 7594 | | 6 | | 0 | | 0 | | 0 | | 0 | | 0 | |
| NAVY FLEET SUPPORT ACTIVITIES - ACDU | | | | | | | | | | | | | |
| 1312 | | 18 | | 0 | | 0 | | 0 | | 0 | | 0 | |
| 6310 | | 4 | | 0 | | 0 | | 0 | | 0 | | 0 | |
| ABECS | 7004 | | 1 | | 0 | | 0 | | 0 | | 0 | | 0 |
| ABECS | 7006 | | 1 | | 0 | | 0 | | 0 | | 0 | | 0 |
| ABECS | 7006 9502 | | 1 | | 0 | | 0 | | 0 | | 0 | | 0 |
| ABEC | 7004 7005 | | 2 | | 0 | | 0 | | 0 | | 0 | | 0 |
| ABEC | 7006 | | 3 | | 0 | | 0 | | 0 | | 0 | | 0 |
| ABEC | 7006 9502 | | 3 | | 0 | | 0 | | 0 | | 0 | | 0 |
| ABE1 | 7004 | | 2 | | 0 | | 0 | | 0 | | 0 | | 0 |
| ABE1 | 7005 | | 6 | | 0 | | 0 | | 0 | | 0 | | 0 |
| ABE1 | 7005 7006 | | 1 | | 0 | | 0 | | 0 | | 0 | | 0 |
| ABE1 | 7006 | | 1 | | 0 | | 0 | | 0 | | 0 | | 0 |
| ABE1 | 7006 9502 | | 4 | | 0 | | 0 | | 0 | | 0 | | 0 |
| ABE1 | 7006 9598 | | 1 | | 0 | | 0 | | 0 | | 0 | | 0 |
| ABE2 | 7004 | | 6 | | 0 | | 0 | | 0 | | 0 | | 0 |
| ABE2 | 7005 | | 6 | | 0 | | 0 | | 0 | | 0 | | 0 |
| ABE2 | 7005 7004 | | 2 | | 0 | | 0 | | 0 | | 0 | | 0 |
| ACCM | 6901 6902 | | 1 | | 0 | | 0 | | 0 | | 0 | | 0 |
| ACCM | 6902 | | 2 | | 0 | | 0 | | 0 | | 0 | | 0 |
| ACCS | 6901 6902 | | 1 | | 0 | | 0 | | 0 | | 0 | | 0 |
| ACCS | 6902 | | 4 | | 0 | | 0 | | 0 | | 0 | | 0 |
| ACC | 6901 6902 | | 2 | | 0 | | 0 | | 0 | | 0 | | 0 |
| ACC | 6902 | | 6 | | 0 | | 0 | | 0 | | 0 | | 0 |
| ACC | 6902 6901 | | 1 | | 0 | | 0 | | 0 | | 0 | | 0 |
| AC1 | 6901 6902 | | 20 | | 0 | | 0 | | 0 | | 0 | | 0 |
| AC1 | 6902 | | 21 | | 0 | | 0 | | 0 | | 0 | | 0 |
| AC2 | 6901 6902 | | 18 | | 0 | | 0 | | 0 | | 0 | | 0 |
| AC2 | 6902 | | 35 | | 0 | | 0 | | 0 | | 0 | | 0 |
| AC3 | 6901 6902 | | 10 | | 0 | | 0 | | 0 | | 0 | | 0 |
| AC3 | 6902 | | 18 | | 0 | | 0 | | 0 | | 0 | | 0 |
| AC3 | 6903 | | 1 | | 0 | | 0 | | 0 | | 0 | | 0 |
| ACAN | 6902 | | 12 | | 0 | | 0 | | 0 | | 0 | | 0 |
| IC1 | 4745 | | 1 | | 0 | | 0 | | 0 | | 0 | | 0 |
| IC2 | 4745 | | 7 | | 0 | | 0 | | 0 | | 0 | | 0 |
| IC3 | 4745 | | 3 | | 0 | | 0 | | 0 | | 0 | | 0 |

II.A.1.c. TOTAL BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

| DESIG/ RATING | PNEC/SNEC PMOS/SMOS | PFYs | | CFY02 | | FY03 | | FY04 | | FY05 | | FY06 | |
|--|------------------------|------|-----|-------|-----|------|-----|------|-----|------|-----|------|-----|
| | | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL |
| NAVY FLEET SUPPORT ACTIVITIES - SELRES | | | | | | | | | | | | | |
| 1312 | | 2 | | 0 | | 0 | | 0 | | 0 | | 0 | |
| ABE1 | 7005 | | 1 | 0 | | 0 | 0 | 0 | | 0 | 0 | | 0 |
| IC3 | 4745 | | 3 | 0 | | 0 | 0 | 0 | | 0 | 0 | | 0 |

SUMMARY TOTALS:

| | | | | | | | | | | | | | |
|--|--|-----|------|---|---|---|-----|---|---|---|---|---|---|
| NAVY OPERATIONAL ACTIVITIES - ACDU | | | | | | | | | | | | | |
| | | 178 | 3076 | 0 | 0 | 1 | 240 | 0 | 0 | 0 | 0 | 0 | 0 |
| NAVY OPERATIONAL ACTIVITIES - SELRES | | | | | | | | | | | | | |
| | | 10 | | 0 | | 0 | | 0 | | 0 | | 0 | |
| NAVY OPERATIONAL ACTIVITIES - USMC | | | | | | | | | | | | | |
| | | 2 | | 0 | | 0 | | 0 | | 0 | | 0 | |
| USMC OPERATIONAL ACTIVITIES - USMC | | | | | | | | | | | | | |
| | | 40 | | 0 | | 0 | | 0 | | 0 | | 0 | |
| NAVY FLEET SUPPORT ACTIVITIES - ACDU | | | | | | | | | | | | | |
| | | 22 | 203 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NAVY FLEET SUPPORT ACTIVITIES - SELRES | | | | | | | | | | | | | |
| | | 2 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

GRAND TOTALS:

| | | | | | | | | | | | | | |
|---------------|--|-----|------|---|---|---|-----|---|---|---|---|---|---|
| NAVY - ACDU | | | | | | | | | | | | | |
| | | 200 | 3279 | 0 | 0 | 1 | 240 | 0 | 0 | 0 | 0 | 0 | 0 |
| NAVY - SELRES | | | | | | | | | | | | | |
| | | 12 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NAVY - USMC | | | | | | | | | | | | | |
| | | 2 | | 0 | | 0 | | 0 | | 0 | | 0 | |
| USMC - USMC | | | | | | | | | | | | | |
| | | 40 | | 0 | | 0 | | 0 | | 0 | | 0 | |

II.A.2.a. OPERATIONAL AND FLEET SUPPORT ACTIVITY DEACTIVATION SCHEDULE

SOURCE: Total Force Manpower Management System

DATE: May 2001

| ACTIVITY | UIC | PFYs | CFY02 | FY03 | FY04 | FY05 | FY06 |
|--|------------|-------------|--------------|-------------|-------------|-------------|-------------|
| OPERATIONAL ACTIVITIES - NAVY USS Constellation (CV 64) | 03364 | 0 | 1 | 0 | 0 | 0 | 0 |
| TOTAL: | | 0 | 1 | 0 | 0 | 0 | 0 |

II.A.2.c. TOTAL BILLETTS TO BE DELETED IN OPERATIONAL AND FLEET SUPPORT ACTIVITIES

| DESIG/ RATING | PNEC/SNEC PMOS/SMOS | PFYs | | CFY02 | | FY03 | | FY04 | | FY05 | | FY06 | |
|------------------------------------|------------------------|------|-----|-------|-----|------|-----|------|-----|------|-----|------|-----|
| | | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL |
| NAVY OPERATIONAL ACTIVITIES - ACDU | | | | | | | | | | | | | |
| 6310 | | 1 | | -1 | | 0 | | 0 | | 0 | | 0 | |
| ABECS | 7006 | | 2 | -2 | | 0 | | 0 | | 0 | | 0 | |
| ABEC | 7004 | | 5 | -5 | | 0 | | 0 | | 0 | | 0 | |
| ABEC | 7005 | | 3 | -3 | | 0 | | 0 | | 0 | | 0 | |
| ABEC | 7006 | | 2 | -2 | | 0 | | 0 | | 0 | | 0 | |
| ABE1 | 7004 | | 11 | -11 | | 0 | | 0 | | 0 | | 0 | |
| ABE1 | 7005 | | 2 | -2 | | 0 | | 0 | | 0 | | 0 | |
| ABE1 | 7006 | | 3 | -3 | | 0 | | 0 | | 0 | | 0 | |
| ABE2 | | | 3 | -3 | | 0 | | 0 | | 0 | | 0 | |
| ABE2 | 7004 | | 8 | -8 | | 0 | | 0 | | 0 | | 0 | |
| ABE2 | 7005 | | 8 | -8 | | 0 | | 0 | | 0 | | 0 | |
| ABE3 | | | 40 | -40 | | 0 | | 0 | | 0 | | 0 | |
| ABEAN | | | 29 | -29 | | 0 | | 0 | | 0 | | 0 | |
| ACCS | 6902 | | 1 | -1 | | 0 | | 0 | | 0 | | 0 | |
| ACC | 6902 | | 1 | -1 | | 0 | | 0 | | 0 | | 0 | |
| AC1 | 6902 | | 4 | -4 | | 0 | | 0 | | 0 | | 0 | |
| AC2 | 6902 | | 11 | -11 | | 0 | | 0 | | 0 | | 0 | |
| AC3 | 6902 | | 6 | -6 | | 0 | | 0 | | 0 | | 0 | |
| AZ1 | | | 1 | -1 | | 0 | | 0 | | 0 | | 0 | |
| AZ3 | | | 1 | -1 | | 0 | | 0 | | 0 | | 0 | |
| EM1 | 4672 | | 1 | -1 | | 0 | | 0 | | 0 | | 0 | |
| EM2 | 4672 | | 1 | -1 | | 0 | | 0 | | 0 | | 0 | |
| EM3 | 4672 | | 2 | -2 | | 0 | | 0 | | 0 | | 0 | |
| ICC | 4745 | | 1 | -1 | | 0 | | 0 | | 0 | | 0 | |
| IC1 | 4743 | | 2 | -2 | | 0 | | 0 | | 0 | | 0 | |
| IC1 | 4745 | | 1 | -1 | | 0 | | 0 | | 0 | | 0 | |
| IC2 | 4743 | | 1 | -1 | | 0 | | 0 | | 0 | | 0 | |
| IC2 | 4745 | | 2 | -2 | | 0 | | 0 | | 0 | | 0 | |
| IC3 | 4743 | | 2 | -2 | | 0 | | 0 | | 0 | | 0 | |
| IC3 | 4745 | | 1 | -2 | | 0 | | 0 | | 0 | | 0 | |
| AN | | | 86 | -86 | | 0 | | 0 | | 0 | | 0 | |

SUMMARY TOTALS:

| | | | | | | | | | | | | | |
|------------------------------------|--|---|-----|----|-----|---|---|---|---|---|---|---|---|
| NAVY OPERATIONAL ACTIVITIES - ACDU | | | | | | | | | | | | | |
| | | 1 | 241 | -1 | 241 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

GRAND TOTALS:

| | | | | | | | | | | | | | |
|-------------|--|---|-----|----|-----|---|---|---|---|---|---|---|---|
| NAVY - ACDU | | | | | | | | | | | | | |
| | | 1 | 241 | -1 | 241 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

II.A.3. TRAINING ACTIVITIES INSTRUCTOR AND SUPPORT BILLET REQUIREMENTS

| DESIG RATING | PNEC/SNEC PMOS/SMOS | PFYs | | CFY02 | | FY03 | | FY04 | | FY05 | | FY06 | |
|-----------------|------------------------|------|-----|-------|-----|------|-----|------|-----|------|-----|------|-----|
| | | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL |

TRAINING ACTIVITY, LOCATION, UIC: Landing Signal Officer School, NAS Oceana, 68788

INSTRUCTOR BILLETS

| | | | | | | | | | | | | | | |
|---------------|--|--|---|---|---|---|---|---|---|---|---|---|---|---|
| ACDU | | | | | | | | | | | | | | |
| 1312 | | | 3 | 0 | 3 | 0 | 3 | 0 | 3 | 0 | 3 | 0 | 3 | 0 |
| TOTAL: | | | 3 | 0 | 3 | 0 | 3 | 0 | 3 | 0 | 3 | 0 | 3 | 0 |

TRAINING ACTIVITY, LOCATION, UIC: NAMTRAU Norfolk, 46680

INSTRUCTOR BILLETS

| | | | | | | | | | | | | | | |
|---------------|------|------|---|---|---|---|---|---|---|---|---|---|---|---|
| ACDU | | | | | | | | | | | | | | |
| ABE1 | 7004 | 9502 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| ABE1 | 7005 | 9502 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| TOTAL: | | | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 |

TRAINING ACTIVITY, LOCATION, UIC: NAMTRAU North Island, 39476

INSTRUCTOR BILLETS

| | | | | | | | | | | | | | | |
|---------------|------|------|---|---|---|---|---|---|---|---|---|---|---|---|
| ACDU | | | | | | | | | | | | | | |
| ABECS | 7006 | 9502 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| ABE1 | 7004 | 9502 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| ABE1 | 7005 | 9502 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| TOTAL: | | | 0 | 3 | 0 | 3 | 0 | 3 | 0 | 3 | 0 | 3 | 0 | 3 |

II.A.3. TRAINING ACTIVITIES INSTRUCTOR AND SUPPORT BILLET REQUIREMENTS

| DESIG RATING | PNEC/SNEC PMOS/SMOS | | PFYs | | CFY02 | | FY03 | | FY04 | | FY05 | | FY06 | |
|-----------------|------------------------|--|------|-----|-------|-----|------|-----|------|-----|------|-----|------|-----|
| | | | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL |

TRAINING ACTIVITY, LOCATION, UIC: NATTC DET Lakehurst, 63094

INSTRUCTOR BILLETS

| ACDU | | | PFYs | | CFY02 | | FY03 | | FY04 | | FY05 | | FY06 | |
|---------------|--------|------|------|-----|-------|-----|------|-----|------|-----|------|-----|------|-----|
| DESIG | RATING | UIC | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL |
| 6310 | | | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 |
| ABECS | 7006 | 9502 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| ABEC | 7004 | 9502 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| ABEC | 7005 | 9502 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| ABEC | 7006 | 9502 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 |
| ABE1 | 7004 | 9502 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| ABE1 | 7005 | 9502 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| ABE1 | 7006 | 9502 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 |
| EM1 | 4672 | 9502 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 |
| ICC | 4745 | 9502 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| IC1 | 4745 | 9502 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 |
| TOTAL: | | | 1 | 14 | 1 | 14 | 1 | 14 | 1 | 14 | 1 | 14 | 1 | 14 |

TRAINING ACTIVITY, LOCATION, UIC: NATTC Pensacola, 63093

INSTRUCTOR BILLETS

| ACDU | | | PFYs | | CFY02 | | FY03 | | FY04 | | FY05 | | FY06 | |
|---------------|--------|------|------|-----|-------|-----|------|-----|------|-----|------|-----|------|-----|
| DESIG | RATING | UIC | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL |
| ACCS | 6902 | 9502 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| ACCS | 6903 | 9502 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| ACC | 6902 | 9502 | 0 | 5 | 0 | 5 | 0 | 5 | 0 | 5 | 0 | 5 | 0 | 5 |
| ACC | 6903 | 9502 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 |
| AC1 | 6902 | 9502 | 0 | 17 | 0 | 17 | 0 | 17 | 0 | 17 | 0 | 17 | 0 | 17 |
| AC1 | 6903 | 9502 | 0 | 10 | 0 | 10 | 0 | 10 | 0 | 10 | 0 | 10 | 0 | 10 |
| AC2 | 6903 | 9502 | 0 | 3 | 0 | 3 | 0 | 3 | 0 | 3 | 0 | 3 | 0 | 3 |
| TOTAL: | | | 0 | 39 | 0 | 39 | 0 | 39 | 0 | 39 | 0 | 39 | 0 | 39 |

TRAINING ACTIVITY, LOCATION, UIC: Service School Command, Naval Training Center, 30626

INSTRUCTOR BILLETS

| ACDU | | | PFYs | | CFY02 | | FY03 | | FY04 | | FY05 | | FY06 | |
|---------------|--------|------|------|-----|-------|-----|------|-----|------|-----|------|-----|------|-----|
| DESIG | RATING | UIC | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL |
| IC1 | 4743 | 9502 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| IC1 | 4779 | 9502 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| TOTAL: | | | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 |

II.A.4. CHARGEABLE STUDENT BILLET REQUIREMENTS

| ACTIVITY, LOCATION, UIC | USN/ USMC | PFYs | | CFY02 | | FY03 | | FY04 | | FY05 | | FY06 | |
|---|--------------|------|------|-------|------|------|------|------|------|------|------|------|------|
| | | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL |
| Landing Signal Officer School, NAS Oceana, 68788 | | | | | | | | | | | | | |
| | NAVY | 0.0 | | 0.0 | | 0.0 | | 0.0 | | 0.0 | | 0.0 | |
| | USMC | 0.0 | | 0.0 | | 0.0 | | 0.0 | | 0.0 | | 0.0 | |
| NAMTRAU Norfolk, 46680 | | | | | | | | | | | | | |
| | NAVY | | 0.0 | | 0.0 | | 0.0 | | 0.0 | | 0.0 | | 0.0 |
| NATTC DET Lakehurst, 63094 | | | | | | | | | | | | | |
| | NAVY | 0.3 | 20.9 | 0.3 | 21.5 | 0.4 | 24.0 | 0.4 | 20.8 | 0.4 | 20.8 | 0.4 | 20.8 |
| NATTC Pensacola, 63093 | | | | | | | | | | | | | |
| | NAVY | | 15.9 | | 16.1 | | 17.3 | | 15.9 | | 15.9 | | 15.9 |
| Service School Command, Naval Training Center, Great Lakes, 30626 | | | | | | | | | | | | | |
| | NAVY | | 4.5 | | 4.8 | | 4.5 | | 4.2 | | 4.2 | | 4.2 |
| NAMTRAU North Island, 39476 | | | | | | | | | | | | | |
| | NAVY | | 0.0 | | 0.0 | | 0.0 | | 0.0 | | 0.0 | | 0.0 |
| SUMMARY TOTALS: | | | | | | | | | | | | | |
| | NAVY | 0.3 | 41.3 | 0.3 | 42.4 | 0.4 | 45.8 | 0.4 | 40.9 | 0.4 | 40.9 | 0.4 | 40.9 |
| | USMC | 0.0 | | 0.0 | | 0.0 | | 0.0 | | 0.0 | | 0.0 | |
| GRAND TOTALS: | | | | | | | | | | | | | |
| | | 0.3 | 41.3 | 0.3 | 41.3 | 0.3 | 42.4 | 0.4 | 45.8 | 0.4 | 40.9 | 0.4 | 40.9 |

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

| DESIG/ RATING | PNEC/ PMOS | SNEC/ SMOS | BILLET BASE | CFY02 | | FY03 | | FY04 | | FY05 | | FY06 | |
|------------------|---------------|---------------|----------------|-------|-----|------|-----|------|-----|------|-----|------|-----|
| | | | | +/- | CUM | +/- | CUM | +/- | CUM | +/- | CUM | +/- | CUM |

a. OFFICER - USN

Operational Billets ACDU and TAR

| | | | | | | | | | | | | | |
|------|--|--|-----|----|-----|---|-----|---|-----|---|-----|---|-----|
| 1311 | | | 108 | 0 | 108 | 0 | 108 | 0 | 108 | 0 | 108 | 0 | 108 |
| 1312 | | | 58 | 0 | 58 | 0 | 58 | 0 | 58 | 0 | 58 | 0 | 58 |
| 6310 | | | 12 | -1 | 11 | 1 | 12 | 0 | 12 | 0 | 12 | 0 | 12 |

Fleet Support Billets ACDU and TAR

| | | | | | | | | | | | | | |
|------|--|--|----|---|----|---|----|---|----|---|----|---|----|
| 1312 | | | 18 | 0 | 18 | 0 | 18 | 0 | 18 | 0 | 18 | 0 | 18 |
| 6310 | | | 4 | 0 | 4 | 0 | 4 | 0 | 4 | 0 | 4 | 0 | 4 |

Staff Billets ACDU and TAR

| | | | | | | | | | | | | | |
|------|--|--|---|---|---|---|---|---|---|---|---|---|---|
| 1312 | | | 3 | 0 | 3 | 0 | 3 | 0 | 3 | 0 | 3 | 0 | 3 |
| 6310 | | | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |

Chargeable Student Billets ACDU and TAR

| | | | | | | | | | | | | | |
|--|--|--|---|---|---|---|---|---|---|---|---|---|---|
| | | | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 1 |
|--|--|--|---|---|---|---|---|---|---|---|---|---|---|

SELRES Billets

| | | | | | | | | | | | | | |
|------|--|--|---|---|---|---|---|---|---|---|---|---|---|
| 1311 | | | 8 | 0 | 8 | 0 | 8 | 0 | 8 | 0 | 8 | 0 | 8 |
| 1312 | | | 4 | 0 | 4 | 0 | 4 | 0 | 4 | 0 | 4 | 0 | 4 |

TOTAL USN OFFICER BILLETS:

| | | | | | | | | | | | | | |
|-------------|--|--|-----|----|-----|---|-----|---|-----|---|-----|---|-----|
| Operational | | | 178 | -1 | 177 | 1 | 178 | 0 | 178 | 0 | 178 | 0 | 178 |
|-------------|--|--|-----|----|-----|---|-----|---|-----|---|-----|---|-----|

| | | | | | | | | | | | | | |
|---------------|--|--|----|---|----|---|----|---|----|---|----|---|----|
| Fleet Support | | | 22 | 0 | 22 | 0 | 22 | 0 | 22 | 0 | 22 | 0 | 22 |
|---------------|--|--|----|---|----|---|----|---|----|---|----|---|----|

| | | | | | | | | | | | | | |
|-------|--|--|---|---|---|---|---|---|---|---|---|---|---|
| Staff | | | 4 | 0 | 4 | 0 | 4 | 0 | 4 | 0 | 4 | 0 | 4 |
|-------|--|--|---|---|---|---|---|---|---|---|---|---|---|

| | | | | | | | | | | | | | |
|--------------------|--|--|---|---|---|---|---|---|---|---|---|---|---|
| Chargeable Student | | | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
|--------------------|--|--|---|---|---|---|---|---|---|---|---|---|---|

| | | | | | | | | | | | | | |
|--------|--|--|----|---|----|---|----|---|----|---|----|---|----|
| SELRES | | | 12 | 0 | 12 | 0 | 12 | 0 | 12 | 0 | 12 | 0 | 12 |
|--------|--|--|----|---|----|---|----|---|----|---|----|---|----|

b. ENLISTED - USN

Operational Billets ACDU and TAR

| | | | | | | | | | | | | | |
|-------|------|--|----|----|----|---|----|---|----|---|----|---|----|
| ABECS | 7004 | | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| ABECS | 7005 | | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 |
| ABECS | 7006 | | 22 | -2 | 20 | 2 | 22 | 0 | 22 | 0 | 22 | 0 | 22 |
| ABEC | 7004 | | 55 | -5 | 50 | 5 | 55 | 0 | 55 | 0 | 55 | 0 | 55 |
| ABEC | 7005 | | 34 | -3 | 31 | 3 | 34 | 0 | 34 | 0 | 34 | 0 | 34 |
| ABEC | 7006 | | 22 | -2 | 20 | 2 | 22 | 0 | 22 | 0 | 22 | 0 | 22 |

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

| DESIG/ RATING | PNEC/ PMOS | SNEC/ SMOS | BILLET BASE | CFY02 | | FY03 | | FY04 | | FY05 | | FY06 | |
|------------------------------------|---------------|---------------|----------------|-------|-----|------|------|------|------|------|------|------|------|
| | | | | +/- | CUM | +/- | CUM | +/- | CUM | +/- | CUM | +/- | CUM |
| ABE1 | 7004 | | 126 | -11 | 115 | 11 | 126 | 0 | 126 | 0 | 126 | 0 | 1 |
| ABE1 | 7005 | | 28 | -2 | 26 | 2 | 28 | 0 | 28 | 0 | 28 | 0 | 28 |
| ABE1 | 7006 | | 34 | -3 | 31 | 3 | 34 | 0 | 34 | 0 | 34 | 0 | 34 |
| ABE2 | | | 36 | -3 | 33 | 3 | 36 | 0 | 36 | 0 | 36 | 0 | 36 |
| ABE2 | 7004 | | 114 | -8 | 106 | 8 | 114 | 0 | 114 | 0 | 114 | 0 | 114 |
| ABE2 | 7005 | | 90 | -8 | 82 | 8 | 90 | 0 | 90 | 0 | 90 | 0 | 90 |
| ABE2 | 7005 | 9595 | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 |
| ABE3 | | | 496 | -40 | 456 | 42 | 498 | 0 | 498 | 0 | 498 | 0 | 498 |
| ABEAN | | | 336 | -29 | 307 | 27 | 334 | 0 | 334 | 0 | 334 | 0 | 334 |
| ACCS | 6902 | | 12 | -1 | 11 | 1 | 12 | 0 | 12 | 0 | 12 | 0 | 12 |
| ACC | 6902 | | 12 | -1 | 11 | 1 | 12 | 0 | 12 | 0 | 12 | 0 | 12 |
| ACC | 6903 | | 12 | 0 | 12 | 0 | 12 | 0 | 12 | 0 | 12 | 0 | 12 |
| AC1 | 6902 | | 48 | -4 | 44 | 4 | 48 | 0 | 48 | 0 | 48 | 0 | 48 |
| AC1 | 6903 | | 12 | 0 | 12 | 0 | 12 | 0 | 12 | 0 | 12 | 0 | 12 |
| AC2 | 6902 | | 131 | -11 | 120 | 11 | 131 | 0 | 131 | 0 | 131 | 0 | 131 |
| AC2 | 6903 | | 84 | 0 | 84 | 0 | 84 | 0 | 84 | 0 | 84 | 0 | 84 |
| AC3 | 6902 | | 74 | -6 | 68 | 6 | 74 | 0 | 74 | 0 | 74 | 0 | 74 |
| AC3 | 6903 | | 36 | 0 | 36 | 0 | 36 | 0 | 36 | 0 | 36 | 0 | 36 |
| AZ1 | | | 12 | -1 | 11 | 1 | 12 | 0 | 12 | 0 | 12 | 0 | 12 |
| AZ3 | | | 12 | -1 | 11 | 1 | 12 | 0 | 12 | 0 | 12 | 0 | 12 |
| EM1 | 4672 | | 12 | -1 | 11 | 1 | 12 | 0 | 12 | 0 | 12 | 0 | 12 |
| EM2 | 4672 | | 12 | -1 | 11 | 1 | 12 | 0 | 12 | 0 | 12 | 0 | 12 |
| EM3 | 4672 | | 24 | -2 | 22 | 2 | 24 | 0 | 24 | 0 | 24 | 0 | 24 |
| ICC | 4745 | | 12 | -1 | 11 | 1 | 12 | 0 | 12 | 0 | 12 | 0 | 12 |
| IC1 | 4743 | | 34 | -2 | 32 | 3 | 35 | 0 | 35 | 0 | 35 | 0 | 35 |
| IC1 | 4745 | | 12 | -1 | 11 | 1 | 12 | 0 | 12 | 0 | 12 | 0 | 12 |
| IC1 | 4779 | | 7 | 0 | 7 | 0 | 7 | 0 | 7 | 0 | 7 | 0 | 7 |
| IC1 | 4779 | 4728 | 12 | 0 | 12 | 0 | 12 | 0 | 12 | 0 | 12 | 0 | 12 |
| IC2 | 4743 | | 6 | -1 | 5 | 0 | 5 | 0 | 5 | 0 | 5 | 0 | 5 |
| IC2 | 4745 | | 16 | -2 | 14 | 1 | 15 | 1 | 15 | 0 | 15 | 0 | 15 |
| IC2 | 4756 | 4779 | 5 | 0 | 5 | 0 | 5 | 0 | 5 | 0 | 5 | 0 | 5 |
| IC2 | 4779 | | 7 | 0 | 7 | 0 | 7 | 0 | 7 | 0 | 7 | 0 | 7 |
| IC3 | 4743 | | 10 | -2 | 8 | 0 | 8 | 0 | 8 | 0 | 8 | 0 | 8 |
| IC3 | 4745 | | 11 | -1 | 10 | 1 | 11 | 0 | 11 | 0 | 11 | 0 | 11 |
| AN | | | 1053 | -86 | 967 | 88 | 1055 | 0 | 1055 | 0 | 1055 | 0 | 1055 |
| Fleet Support Billets ACDU and TAR | | | | | | | | | | | | | |
| ABECS | 7004 | | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| ABECS | 7006 | | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| ABECS | 7006 | 9502 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| ABEC | 7004 | 7005 | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 |
| ABEC | 7006 | | 3 | 0 | 3 | 0 | 3 | 0 | 3 | 0 | 3 | 0 | 3 |
| ABEC | 7006 | 9502 | 3 | 0 | 3 | 0 | 3 | 0 | 3 | 0 | 3 | 0 | 3 |
| ABE1 | 7004 | | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 |
| ABE1 | 7005 | | 6 | 0 | 6 | 0 | 6 | 0 | 6 | 0 | 6 | 0 | 6 |
| ABE1 | 7005 | 7006 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| ABE1 | 7006 | | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| ABE1 | 7006 | 9502 | 4 | 0 | 4 | 0 | 4 | 0 | 4 | 0 | 4 | 0 | 4 |

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

| DESIG/ RATING | PNEC/ PMOS | SNEC/ SMOS | BILLET BASE | CFY02 | | FY03 | | FY04 | | FY05 | | FY06 | |
|---|---------------|---------------|----------------|-------|-----|------|-----|------|-----|------|-----|------|-----|
| | | | | +/- | CUM | +/- | CUM | +/- | CUM | +/- | CUM | +/- | CUM |
| ABE1 | 7006 | 9598 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| ABE2 | 7004 | | 6 | 0 | 6 | 0 | 6 | 0 | 6 | 0 | 6 | 0 | 6 |
| ABE2 | 7005 | | 6 | 0 | 6 | 0 | 6 | 0 | 6 | 0 | 6 | 0 | 6 |
| ABE2 | 7005 | 7004 | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 |
| ACCM | 6901 | 6902 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| ACCM | 6902 | | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 |
| ACCS | 6901 | 6902 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| ACCS | 6902 | | 4 | 0 | 4 | 0 | 4 | 0 | 4 | 0 | 4 | 0 | 4 |
| ACC | 6901 | 6902 | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 |
| ACC | 6902 | | 6 | 0 | 6 | 0 | 6 | 0 | 6 | 0 | 6 | 0 | 6 |
| ACC | 6902 | 6901 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| AC1 | 6901 | 6902 | 20 | 0 | 20 | 0 | 20 | 0 | 20 | 0 | 20 | 0 | 20 |
| AC1 | 6902 | | 21 | 0 | 21 | 0 | 21 | 0 | 21 | 0 | 21 | 0 | 21 |
| AC2 | 6901 | 6902 | 18 | 0 | 18 | 0 | 18 | 0 | 18 | 0 | 18 | 0 | 18 |
| AC2 | 6902 | | 35 | 0 | 35 | 0 | 35 | 0 | 35 | 0 | 35 | 0 | 35 |
| AC3 | 6901 | 6902 | 10 | 0 | 10 | 0 | 10 | 0 | 10 | 0 | 10 | 0 | 10 |
| AC3 | 6902 | | 18 | 0 | 18 | 0 | 18 | 0 | 18 | 0 | 18 | 0 | 18 |
| AC3 | 6903 | | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| ACAN | 6902 | | 12 | 0 | 12 | 0 | 12 | 0 | 12 | 0 | 12 | 0 | 12 |
| IC1 | 4745 | | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| IC2 | 4745 | | 7 | 0 | 7 | 0 | 7 | 0 | 7 | 0 | 7 | 0 | 7 |
| IC3 | 4745 | | 3 | 0 | 3 | 0 | 3 | 0 | 3 | 0 | 3 | 0 | 3 |
| Staff Billets ACDU and TAR | | | | | | | | | | | | | |
| ABECS | 7006 | 9502 | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 |
| ABEC | 7004 | 9502 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| ABEC | 7005 | 9502 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| ABEC | 7006 | 9502 | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 |
| ABE1 | 7004 | 9502 | 3 | 0 | 3 | 0 | 3 | 0 | 3 | 0 | 3 | 0 | 3 |
| ABE1 | 7005 | 9502 | 3 | 0 | 3 | 0 | 3 | 0 | 3 | 0 | 3 | 0 | 3 |
| ABE1 | 7006 | 9502 | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 |
| ACCS | 6902 | 9502 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| ACCS | 6903 | 9502 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| ACC | 6902 | 9502 | 5 | 0 | 5 | 0 | 5 | 0 | 5 | 0 | 5 | 0 | 5 |
| ACC | 6903 | 9502 | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 |
| AC1 | 6902 | 9502 | 17 | 0 | 17 | 0 | 17 | 0 | 17 | 0 | 17 | 0 | 17 |
| AC1 | 6903 | 9502 | 10 | 0 | 10 | 0 | 10 | 0 | 10 | 0 | 10 | 0 | 10 |
| AC2 | 6903 | 9502 | 3 | 0 | 3 | 0 | 3 | 0 | 3 | 0 | 3 | 0 | 3 |
| EM1 | 4672 | 9502 | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 |
| ICC | 4745 | 9502 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| IC1 | 4743 | 9502 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| IC1 | 4745 | 9502 | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 |
| IC1 | 4779 | 9502 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| Chargeable Student Billets ACDU and TAR | | | | | | | | | | | | | |
| | | | 41 | 2 | 43 | 3 | 46 | 0 | 46 | -5 | 41 | 0 | 41 |

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

| DESIG/ RATING | PNEC/ PMOS | SNEC/ SMOS | BILLET BASE | CFY02 | | FY03 | | FY04 | | FY05 | | FY06 | |
|------------------|---------------|---------------|----------------|-------|-----|------|-----|------|-----|------|-----|------|-----|
| | | | | +/- | CUM | +/- | CUM | +/- | CUM | +/- | CUM | +/- | CUM |
| SELRES Billets | | | | | | | | | | | | | |
| ABE1 | 7005 | | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| IC3 | 4745 | | 3 | 0 | 3 | 0 | 3 | 0 | 3 | 0 | 3 | 0 | 3 |

TOTAL USN ENLISTED BILLETS:

| | | | | | | | | | | | | | |
|--------------------|--|--|------|---|------|------|------|-----|------|----|------|---|------|
| Operational | | | 3076 | 0 | 3076 | -241 | 2835 | 240 | 3075 | 0 | 3075 | 0 | 3075 |
| Fleet Support | | | 203 | 0 | 203 | 0 | 203 | 0 | 203 | 0 | 203 | 0 | 203 |
| Staff | | | 60 | 0 | 60 | 0 | 60 | 0 | 60 | 0 | 60 | 0 | 60 |
| Chargeable Student | | | 41 | 0 | 41 | 2 | 43 | 3 | 46 | -5 | 41 | 0 | 41 |
| SELRES | | | 4 | 0 | 4 | 0 | 4 | 0 | 4 | 0 | 4 | 0 | 4 |

c. OFFICER - USMC

Operational Billets USMC and AR

| | | | | | | | | | | | | | |
|------|--|--|----|---|----|---|----|---|----|---|----|---|----|
| 7593 | | | 36 | 0 | 36 | 0 | 36 | 0 | 36 | 0 | 36 | 0 | 36 |
| 7594 | | | 6 | 0 | 6 | 0 | 6 | 0 | 6 | 0 | 6 | 0 | 6 |

TOTAL USMC OFFICER BILLETS:

| | | | | | | | | | | | | | |
|-------------|--|--|----|---|----|---|----|---|----|---|----|---|----|
| Operational | | | 42 | 0 | 42 | 0 | 42 | 0 | 42 | 0 | 42 | 0 | 42 |
|-------------|--|--|----|---|----|---|----|---|----|---|----|---|----|

d. ENLISTED - USMC Not Applicable

II.B. PERSONNEL REQUIREMENTS

II.B.1. ANNUAL TRAINING INPUT REQUIREMENTS

CIN, COURSE TITLE: A-191-0011, Integrated Launch and Recovery Television Surveillance System Maintenance

COURSE LENGTH: 18.0 Weeks

NAVY TOUR LENGTH: 36 Months

ATTRITION FACTOR: Navy: 10% USMC: 0%

BACKOUT FACTOR: 0.36

| TRAINING ACTIVITY | SOURCE | ACDU/TAR SELRES | CFY02 | | FY03 | | FY04 | | FY05 | | FY06 | |
|--|--------|--------------------|-------|-----|------|-----|------|-----|------|-----|------|-----|
| | | | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL |
| Service School Command, Naval Training Center, Great Lakes | | | | | | | | | | | | |
| | NAVY | ACDU | | 14 | | 13 | | 12 | | 12 | | 12 |
| | | TOTAL: | | 14 | | 13 | | 12 | | 12 | | 12 |

CIN, COURSE TITLE: C-604-2013, CV Catapult Electrician

COURSE LENGTH: 4.0 Weeks

NAVY TOUR LENGTH: 36 Months

ATTRITION FACTOR: Navy: 10% USMC: 0%

BACKOUT FACTOR: 0.08

| TRAINING ACTIVITY | SOURCE | ACDU/TAR SELRES | CFY02 | | FY03 | | FY04 | | FY05 | | FY06 | |
|----------------------|--------|--------------------|-------|-----|------|-----|------|-----|------|-----|------|-----|
| | | | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL |
| NATTC DET Lakehurst | | | | | | | | | | | | |
| | NAVY | ACDU | | 16 | | 19 | | 16 | | 16 | | 16 |
| | | TOTAL: | | 16 | | 19 | | 16 | | 16 | | 16 |

CIN, COURSE TITLE: C-604-2014, Aircraft Launch and Recovery Equipment C13 Catapult Class C1

COURSE LENGTH: 6.4 Weeks

NAVY TOUR LENGTH: 36 Months

ATTRITION FACTOR: Navy: 10% USMC: 0%

BACKOUT FACTOR: 0.13

| TRAINING ACTIVITY | SOURCE | ACDU/TAR SELRES | CFY02 | | FY03 | | FY04 | | FY05 | | FY06 | |
|----------------------|--------|--------------------|-------|-----|------|-----|------|-----|------|-----|------|-----|
| | | | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL |
| NATTC DET Lakehurst | | | | | | | | | | | | |
| | NAVY | ACDU | | 84 | | 94 | | 82 | | 82 | | 82 |
| | | TOTAL: | | 84 | | 94 | | 82 | | 82 | | 82 |

CIN, COURSE TITLE: C-604-2016, Aircraft Launch and Recovery Refresher

COURSE LENGTH: 1.8 Weeks

NAVY TOUR LENGTH: 18 Months

ATTRITION FACTOR: Navy: 5% USMC: 0%

BACKOUT FACTOR: 0.00

| TRAINING ACTIVITY | SOURCE | ACDU/TAR SELRES | CFY02 | | FY03 | | FY04 | | FY05 | | FY06 | |
|----------------------|--------|--------------------|-------|-----|------|-----|------|-----|------|-----|------|-----|
| | | | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL |
| NAMTRAU Norfolk | | | | | | | | | | | | |
| | NAVY | ACDU | | 297 | | 322 | | 297 | | 297 | | 297 |
| NAMTRAU North Island | | | | | | | | | | | | |
| | NAVY | ACDU | | 297 | | 322 | | 297 | | 297 | | 297 |
| | | TOTAL: | | 594 | | 644 | | 594 | | 594 | | 594 |

II.B.1. ANNUAL TRAINING INPUT REQUIREMENTS

CIN, COURSE TITLE: C-604-2024, Aircraft Launch and Recovery Equipment - Catapult
COURSE LENGTH: 1.6 Weeks **NAVY TOUR LENGTH:** 18 Months
ATTRITION FACTOR: Navy: 5% USMC: 0% **BACKOUT FACTOR:** 0.00

| TRAINING ACTIVITY | SOURCE | ACDU/TAR SELRES | CFY02 | | FY03 | | FY04 | | FY05 | | FY06 | |
|----------------------|--------|--------------------|-------|------|------|------|------|------|------|------|------|------|
| | | | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL |
| NAMTRAU Norfolk | NAVY | ACDU | | 558 | | 605 | | 559 | | 559 | | 559 |
| NAMTRAU North Island | NAVY | ACDU | | 558 | | 605 | | 605 | | 559 | | 559 |
| | | TOTAL: | | 1116 | | 1210 | | 1118 | | 1118 | | 1118 |

CIN, COURSE TITLE: C-604-2025, Aircraft Launch and Recovery Equipment Arresting Gear
COURSE LENGTH: 1.4 Weeks **NAVY TOUR LENGTH:** 18 Months
ATTRITION FACTOR: Navy: 5% USMC: 0% **BACKOUT FACTOR:** 0.00

| TRAINING ACTIVITY | SOURCE | ACDU/TAR SELRES | CFY02 | | FY03 | | FY04 | | FY05 | | FY06 | |
|----------------------|--------|--------------------|-------|------|------|------|------|------|------|------|------|------|
| | | | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL |
| NAMTRAU Norfolk | NAVY | ACDU | | 558 | | 605 | | 559 | | 559 | | 559 |
| NAMTRAU North Island | NAVY | ACDU | | 558 | | 605 | | 559 | | 559 | | 559 |
| | | TOTAL: | | 1116 | | 1210 | | 1118 | | 1118 | | 1118 |

CIN, COURSE TITLE: C-604-2028, Aircraft Launch And Recovery Equipment Maintenance Technician
COURSE LENGTH: 12.8 Weeks **NAVY TOUR LENGTH:** 36 Months
ATTRITION FACTOR: Navy: 10% USMC: 0% **BACKOUT FACTOR:** 0.26

| TRAINING ACTIVITY | SOURCE | ACDU/TAR SELRES | CFY02 | | FY03 | | FY04 | | FY05 | | FY06 | |
|----------------------|--------|--------------------|-------|-----|------|-----|------|-----|------|-----|------|-----|
| | | | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL |
| NATTC DET Lakehurst | NAVY | ACDU | | 18 | | 21 | | 18 | | 18 | | 18 |
| | | TOTAL: | | 18 | | 21 | | 18 | | 18 | | 18 |

CIN, COURSE TITLE: C-604-2029, Aircraft Launch and Recovery Equipment Arresting Gear
COURSE LENGTH: 3.6 Weeks **NAVY TOUR LENGTH:** 36 Months
ATTRITION FACTOR: Navy: 10% USMC: 0% **BACKOUT FACTOR:** 0.07

| TRAINING ACTIVITY | SOURCE | ACDU/TAR SELRES | CFY02 | | FY03 | | FY04 | | FY05 | | FY06 | |
|----------------------|--------|--------------------|-------|-----|------|-----|------|-----|------|-----|------|-----|
| | | | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL |
| NATTC DET Lakehurst | NAVY | ACDU | | 48 | | 56 | | 56 | | 56 | | 48 |
| | | TOTAL: | | 48 | | 56 | | 56 | | 48 | | 48 |

II.B.1. ANNUAL TRAINING INPUT REQUIREMENTS

CIN, COURSE TITLE: A-670-0064, Vertical/Short Take-Off and Landing Optical Landing System Maintenance

COURSE LENGTH: 2.0 Weeks

NAVY TOUR LENGTH: 36 Months

ATTRITION FACTOR: Navy: 10% USMC: 0%

BACKOUT FACTOR: 0.00

| TRAINING ACTIVITY | SOURCE | ACDU/TAR SELRES | CFY02 | | FY03 | | FY04 | | FY05 | | FY06 | |
|--|--------|--------------------|-------|-----|------|-----|------|-----|------|-----|------|-----|
| | | | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL |
| Service School Command, Naval Training Center, Great Lakes | | | | | | | | | | | | |
| | NAVY | ACDU | | 9 | | 9 | | 9 | | 9 | | 9 |
| | | TOTAL: | | 9 | | 9 | | 9 | | 9 | | 9 |

CIN, COURSE TITLE: C-670-2010, Optical Landing System Maintenance

COURSE LENGTH: 10.4 Weeks

NAVY TOUR LENGTH: 36 Months

ATTRITION FACTOR: Navy: 10% USMC: 0%

BACKOUT FACTOR: 0.21

| TRAINING ACTIVITY | SOURCE | ACDU/TAR SELRES | CFY02 | | FY03 | | FY04 | | FY05 | | FY06 | |
|----------------------|--------|--------------------|-------|-----|------|-----|------|-----|------|-----|------|-----|
| | | | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL |
| NATTC DET Lakehurst | | | | | | | | | | | | |
| | NAVY | ACDU | | 16 | | 17 | | 15 | | 15 | | 15 |
| | | TOTAL: | | 16 | | 17 | | 15 | | 15 | | 15 |

CIN, COURSE TITLE: D-2G-0001, Initial Formal Ground Training

COURSE LENGTH: 1.6 Weeks

NAVY TOUR LENGTH: 36 Months

ATTRITION FACTOR: Navy: 0% USMC: 0%

BACKOUT FACTOR: 0.00

| TRAINING ACTIVITY | SOURCE | ACDU/TAR SELRES | CFY02 | | FY03 | | FY04 | | FY05 | | FY06 | |
|-------------------------------|--------|--------------------|-------|-----|------|-----|------|-----|------|-----|------|-----|
| | | | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL |
| Landing Signal Officer School | | | | | | | | | | | | |
| | NAVY | ACDU | | 36 | | 36 | | 36 | | 36 | | 36 |
| | | SELRES | | 1 | | 1 | | 1 | | 1 | | 1 |
| | USMC | USMC | | 11 | | 11 | | 11 | | 11 | | 11 |
| | | TOTAL: | | 48 | | 48 | | 48 | | 48 | | 48 |

CIN, COURSE TITLE: D-2G-0002, Advanced Formal Ground Training

COURSE LENGTH: 0.6 Weeks

NAVY TOUR LENGTH: 36 Months

ATTRITION FACTOR: Navy: 0% USMC: 0%

BACKOUT FACTOR: 0.00

| TRAINING ACTIVITY | SOURCE | ACDU/TAR SELRES | CFY02 | | FY03 | | FY04 | | FY05 | | FY06 | |
|-------------------------------|--------|--------------------|-------|-----|------|-----|------|-----|------|-----|------|-----|
| | | | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL |
| Landing Signal Officer School | | | | | | | | | | | | |
| | NAVY | ACDU | | 14 | | 14 | | 14 | | 14 | | 14 |
| | USMC | USMC | | 2 | | 2 | | 2 | | 2 | | 2 |
| | | TOTAL: | | 16 | | 16 | | 16 | | 16 | | 16 |

II.B.1. ANNUAL TRAINING INPUT REQUIREMENTS

CIN, COURSE TITLE: D-2G-0003, Fleet Replacement Squadron Training Command
COURSE LENGTH: 0.6 Weeks **NAVY TOUR LENGTH:** 36 Months
ATTRITION FACTOR: Navy: 0% USMC: 0% **BACKOUT FACTOR:** 0.00

| TRAINING ACTIVITY | SOURCE | ACDU/TAR SELRES | CFY02 | | FY03 | | FY04 | | FY05 | | FY06 | |
|-------------------------------|--------|--------------------|-------|-----|------|-----|------|-----|------|-----|------|-----|
| | | | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL |
| Landing Signal Officer School | | | | | | | | | | | | |
| | NAVY | ACDU | 11 | | 11 | | 11 | | 11 | | 11 | |
| | | SELRES | 0 | | 1 | | 0 | | 1 | | 0 | |
| | | TOTAL: | 11 | | 12 | | 11 | | 12 | | 11 | |

CIN, COURSE TITLE: C-604-2011, Aircraft Launch and Recovery Equipment Maintenance Officer
COURSE LENGTH: 5.6 Weeks **NAVY TOUR LENGTH:** 36 Months
ATTRITION FACTOR: Navy: 0% USMC: 0% **BACKOUT FACTOR:** 0.11

| TRAINING ACTIVITY | SOURCE | ACDU/TAR SELRES | CFY02 | | FY03 | | FY04 | | FY05 | | FY06 | |
|----------------------|--------|--------------------|-------|-----|------|-----|------|-----|------|-----|------|-----|
| | | | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL |
| NATTC DET Lakehurst | | | | | | | | | | | | |
| | NAVY | ACDU | 3 | | 4 | | 4 | | 4 | | 4 | |
| | | ACDU | | 3 | | 4 | | 4 | | 4 | | 4 |
| | | TOTAL: | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |

CIN, COURSE TITLE: C-222-2012, Carrier Air Traffic Control Operator
COURSE LENGTH: 6.0 Weeks **NAVY TOUR LENGTH:** 36 Months
ATTRITION FACTOR: Navy: 10% USMC: 0% **BACKOUT FACTOR:** 0.12

| TRAINING ACTIVITY | SOURCE | ACDU/TAR SELRES | CFY02 | | FY03 | | FY04 | | FY05 | | FY06 | |
|----------------------|--------|--------------------|-------|-----|------|-----|------|-----|------|-----|------|-----|
| | | | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL |
| NATTC Pensacola | | | | | | | | | | | | |
| | NAVY | ACDU | | 96 | | 109 | | 96 | | 96 | | 96 |
| | | TOTAL: | | 96 | | 109 | | 96 | | 96 | | 96 |

CIN, COURSE TITLE: C-222-2019, Amphibious Air Traffic Control Center Operator
COURSE LENGTH: 6.0 Weeks **NAVY TOUR LENGTH:** 36 Months
ATTRITION FACTOR: Navy: 10% USMC: 0% **BACKOUT FACTOR:** 0.12

| TRAINING ACTIVITY | SOURCE | ACDU/TAR SELRES | CFY02 | | FY03 | | FY04 | | FY05 | | FY06 | |
|----------------------|--------|--------------------|-------|-----|------|-----|------|-----|------|-----|------|-----|
| | | | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL |
| NATTC Pensacola | | | | | | | | | | | | |
| | NAVY | ACDU | | 52 | | 52 | | 52 | | 52 | | 52 |
| | | TOTAL: | | 52 | | 52 | | 52 | | 52 | | 52 |

II.B.1. ANNUAL TRAINING INPUT REQUIREMENTS

CIN, COURSE TITLE: C-604-2017, Aircraft Launch and Recovery Equipment Quality Assurance Administration

COURSE LENGTH: 1.0 Weeks

NAVY TOUR LENGTH: 18 Months

ATTRITION FACTOR: Navy: 5% USMC: 0%

BACKOUT FACTOR: 0.00

| TRAINING ACTIVITY | SOURCE | ACDU/TAR SELRES | CFY02 | | FY03 | | FY04 | | FY05 | | FY06 | |
|----------------------|--------|--------------------|-------|-----|------|-----|------|-----|------|-----|------|-----|
| | | | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL |
| NAMTRAU Norfolk | NAVY | ACDU | | 189 | | 205 | | 189 | | 189 | | 189 |
| NAMTRAU North Island | NAVY | ACDU | | 189 | | 205 | | 189 | | 189 | | 189 |
| | | TOTAL: | | 378 | | 410 | | 378 | | 378 | | 378 |

Note 1: The NAVY TOUR LENGTH for courses C-604-2016, C-604-2017, C-604-2024, and C-604-2025 is actually 36 months. However, each student attends these courses twice during a normal tour, so throughput was calculated based on the nominal 18 month tour length.

Note 2: Students attend courses D-2G-0001, D-2G-0002, D-2G-0003, C-604-2016, C-604-2017, C-604-2024, and C-604-2025 on a "returnable Quota" basis. Therefore, attrition factors for Navy students attending these courses have been calculated at 5% to more accurately depict ATIRs.

PART III - TRAINING REQUIREMENTS

The following elements are not affected by the ADMACS and, therefore, are not included in Part III of this NTSP:

III.A.1. Initial Training Requirements

III.A.2. Follow-on Training

III.A.2.b. Planned Courses

III.A.2.c. Unique Courses

III.A.3. Existing Training Phased Out

III.A.2. FOLLOW-ON TRAINING

III.A.2.a. EXISTING COURSES

CIN, COURSE TITLE: A-191-0011, Integrated Launch and Recovery Television Surveillance System Maintenance
TRAINING ACTIVITY: Service School Command
LOCATION, UIC: Naval Training Center Great Lakes, 30626

SOURCE: NAVY **STUDENT CATEGORY:** ACDU - TAR

| CFY02 | | FY03 | | FY04 | | FY05 | | FY06 | | |
|-------|-----|------|-----|------|-----|------|-----|------|-----|------------|
| OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | |
| | 14 | | 13 | | 12 | | 12 | | 12 | ATIR |
| | 13 | | 12 | | 11 | | 11 | | 11 | Output |
| | 4.5 | | 4.2 | | 3.9 | | 3.9 | | 3.9 | AOB |
| | 4.5 | | 4.2 | | 3.9 | | 3.9 | | 3.9 | Chargeable |

CIN, COURSE TITLE: C-604-2013, CV Catapult Electrician
TRAINING ACTIVITY: NATTC DET
LOCATION, UIC: Lakehurst, 63094

SOURCE: NAVY **STUDENT CATEGORY:** ACDU - TAR

| CFY02 | | FY03 | | FY04 | | FY05 | | FY06 | | |
|-------|-----|------|-----|------|-----|------|-----|------|-----|------------|
| OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | |
| | 16 | | 19 | | 16 | | 16 | | 16 | ATIR |
| | 14 | | 17 | | 14 | | 14 | | 14 | Output |
| | 1.1 | | 1.3 | | 1.1 | | 1.1 | | 1.1 | AOB |
| | 1.1 | | 1.3 | | 1.1 | | 1.1 | | 1.1 | Chargeable |

CIN, COURSE TITLE: C-604-2014, Aircraft Launch and Recovery Equipment C13 Catapult Class C1
TRAINING ACTIVITY: NATTC DET
LOCATION, UIC: Lakehurst, 63094

SOURCE: NAVY **STUDENT CATEGORY:** ACDU - TAR

| CFY02 | | FY03 | | FY04 | | FY05 | | FY06 | | |
|-------|-----|------|------|------|-----|------|-----|------|-----|------------|
| OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | |
| | 82 | | 94 | | 82 | | 82 | | 82 | ATIR |
| | 74 | | 86 | | 74 | | 74 | | 74 | Output |
| | 9.4 | | 10.8 | | 9.4 | | 9.4 | | 9.4 | AOB |
| | 9.4 | | 10.8 | | 9.4 | | 9.4 | | 9.4 | Chargeable |

III.A.2.a. EXISTING COURSES

CIN, COURSE TITLE: C-604-2016, Aircraft Launch and Recovery Refresher
TRAINING ACTIVITY: NAMTRAU
LOCATION, UIC: Norfolk, 46680

SOURCE: NAVY **STUDENT CATEGORY:** ACDU - TAR

| CFY02 | | FY03 | | FY04 | | FY05 | | FY06 | | |
|-------|-----|------|-----|------|-----|------|-----|------|-----|------------|
| OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | |
| | 297 | | 297 | | 297 | | 297 | | 297 | ATIR |
| | 282 | | 282 | | 282 | | 282 | | 282 | Output |
| | 8.7 | | 8.7 | | 8.7 | | 8.7 | | 8.7 | AOB |
| | 0.0 | | 0.0 | | 0.0 | | 0.0 | | 0.0 | Chargeable |

TRAINING ACTIVITY: NAMTRAU
LOCATION, UIC: North Island, 39476

SOURCE: NAVY **STUDENT CATEGORY:** ACDU - TAR

| CFY02 | | FY03 | | FY04 | | FY05 | | FY06 | | |
|-------|-----|------|-----|------|-----|------|-----|------|-----|------------|
| OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | |
| | 297 | | 322 | | 297 | | 297 | | 297 | ATIR |
| | 282 | | 306 | | 282 | | 282 | | 282 | Output |
| | 8.7 | | 9.5 | | 8.7 | | 8.7 | | 8.7 | AOB |
| | 0.0 | | 0.0 | | 0.0 | | 0.0 | | 0.0 | Chargeable |

CIN, COURSE TITLE: C-604-2024, Aircraft Launch and Recovery Equipment - Catapult
TRAINING ACTIVITY: NAMTRAU
LOCATION, UIC: Norfolk, 46680

SOURCE: NAVY **STUDENT CATEGORY:** ACDU - TAR

| CFY02 | | FY03 | | FY04 | | FY05 | | FY06 | | |
|-------|------|------|------|------|------|------|------|------|------|------------|
| OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | |
| | 558 | | 605 | | 559 | | 559 | | 559 | ATIR |
| | 530 | | 575 | | 531 | | 531 | | 531 | Output |
| | 14.9 | | 16.2 | | 14.9 | | 14.9 | | 14.9 | AOB |
| | 0.0 | | 0.0 | | 0.0 | | 0.0 | | 0.0 | Chargeable |

TRAINING ACTIVITY: NAMTRAU
LOCATION, UIC: North Island, 39476

SOURCE: NAVY **STUDENT CATEGORY:** ACDU - TAR

| CFY02 | | FY03 | | FY04 | | FY05 | | FY06 | | |
|-------|------|------|------|------|------|------|------|------|------|------------|
| OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | |
| | 558 | | 605 | | 559 | | 559 | | 559 | ATIR |
| | 530 | | 575 | | 531 | | 531 | | 531 | Output |
| | 14.9 | | 16.2 | | 14.9 | | 14.9 | | 14.9 | AOB |
| | 0.0 | | 0.0 | | 0.0 | | 0.0 | | 0.0 | Chargeable |

III.A.2.a. EXISTING COURSES

CIN, COURSE TITLE: C-604-2025, Aircraft Launch and Recovery Equipment Arresting Gear
TRAINING ACTIVITY: NAMTRAU
LOCATION, UIC: Norfolk, 46680

SOURCE: NAVY **STUDENT CATEGORY:** ACDU - TAR

| CFY02 | | FY03 | | FY04 | | FY05 | | FY06 | | |
|-------|------|------|------|------|------|------|------|------|------|------------|
| OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | |
| | 558 | | 605 | | 559 | | 559 | | 559 | ATIR |
| | 530 | | 575 | | 531 | | 531 | | 531 | Output |
| | 13.4 | | 14.5 | | 13.4 | | 13.4 | | 13.4 | AOB |
| | 0.0 | | 0.0 | | 0.0 | | 0.0 | | 0.0 | Chargeable |

TRAINING ACTIVITY: NAMTRAU
LOCATION, UIC: North Island, 39476

SOURCE: NAVY **STUDENT CATEGORY:** ACDU - TAR

| CFY02 | | FY03 | | FY04 | | FY05 | | FY06 | | |
|-------|------|------|------|------|------|------|------|------|------|------------|
| OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | |
| | 558 | | 605 | | 559 | | 559 | | 559 | ATIR |
| | 530 | | 575 | | 531 | | 531 | | 531 | Output |
| | 13.4 | | 14.5 | | 13.4 | | 13.4 | | 13.4 | AOB |
| | 0.0 | | 0.0 | | 0.0 | | 0.0 | | 0.0 | Chargeable |

CIN, COURSE TITLE: C-604-2028, Aircraft Launch And Recovery Equipment Maintenance Technician
TRAINING ACTIVITY: NATTC DET
LOCATION, UIC: Lakehurst, 63094

SOURCE: NAVY **STUDENT CATEGORY:** ACDU - TAR

| CFY02 | | FY03 | | FY04 | | FY05 | | FY06 | | |
|-------|-----|------|-----|------|-----|------|-----|------|-----|------------|
| OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | |
| | 18 | | 21 | | 18 | | 18 | | 18 | ATIR |
| | 16 | | 19 | | 16 | | 16 | | 16 | Output |
| | 4.1 | | 4.8 | | 4.1 | | 4.1 | | 4.1 | AOB |
| | 4.1 | | 4.8 | | 4.1 | | 4.1 | | 4.1 | Chargeable |

CIN, COURSE TITLE: C-604-2029, Aircraft Launch and Recovery Equipment Arresting Gear
TRAINING ACTIVITY: NATTC DET
LOCATION, UIC: Lakehurst, 63094

SOURCE: NAVY **STUDENT CATEGORY:** ACDU - TAR

| CFY02 | | FY03 | | FY04 | | FY05 | | FY06 | | |
|-------|-----|------|-----|------|-----|------|-----|------|-----|------------|
| OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | |
| | 48 | | 56 | | 48 | | 48 | | 48 | ATIR |
| | 43 | | 50 | | 43 | | 43 | | 43 | Output |
| | 3.0 | | 3.5 | | 3.0 | | 3.0 | | 3.0 | AOB |
| | 3.0 | | 3.5 | | 3.0 | | 3.0 | | 3.0 | Chargeable |

III.A.2.a. EXISTING COURSES

CIN, COURSE TITLE: A-670-0064, Vertical/Short Take-Off and Landing Optical Landing System Maintenance
TRAINING ACTIVITY: Service School Command
LOCATION, UIC: Naval Training Center Great Lakes, 30626

SOURCE: NAVY **STUDENT CATEGORY:** ACDU - TAR

| CFY02 | | FY03 | | FY04 | | FY05 | | FY06 | | |
|-------|-----|------|-----|------|-----|------|-----|------|-----|------------|
| OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | |
| | 9 | | 9 | | 9 | | 9 | | 9 | ATIR |
| | 8 | | 8 | | 8 | | 8 | | 8 | Output |
| | 0.3 | | 0.3 | | 0.3 | | 0.3 | | 0.3 | AOB |
| | 0.3 | | 0.3 | | 0.3 | | 0.3 | | 0.3 | Chargeable |

CIN, COURSE TITLE: C-670-2010, Optical Landing System Maintenance
TRAINING ACTIVITY: NATTC DET
LOCATION, UIC: Lakehurst, 63094

SOURCE: NAVY **STUDENT CATEGORY:** ACDU - TAR

| CFY02 | | FY03 | | FY04 | | FY05 | | FY06 | | |
|-------|-----|------|-----|------|-----|------|-----|------|-----|------------|
| OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | |
| | 16 | | 17 | | 15 | | 15 | | 15 | ATIR |
| | 14 | | 15 | | 14 | | 14 | | 14 | Output |
| | 3.0 | | 3.2 | | 2.8 | | 2.8 | | 2.8 | AOB |
| | 3.0 | | 3.2 | | 2.8 | | 2.8 | | 2.8 | Chargeable |

CIN, COURSE TITLE: D-2G-0001, Initial Formal Ground Training
TRAINING ACTIVITY: Landing Signal Officer School
LOCATION, UIC: NAS Oceana, 68788

SOURCE: NAVY **STUDENT CATEGORY:** ACDU - TAR

| CFY02 | | FY03 | | FY04 | | FY05 | | FY06 | | |
|-------|-----|------|-----|------|-----|------|-----|------|-----|------------|
| OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | |
| | 36 | | 36 | | 36 | | 36 | | 36 | ATIR |
| | 36 | | 36 | | 36 | | 36 | | 36 | Output |
| | 1.0 | | 1.0 | | 1.0 | | 1.0 | | 1.0 | AOB |
| | 0.0 | | 0.0 | | 0.0 | | 0.0 | | 0.0 | Chargeable |

SOURCE: NAVY **STUDENT CATEGORY:** SELRES

| CFY02 | | FY03 | | FY04 | | FY05 | | FY06 | | |
|-------|-----|------|-----|------|-----|------|-----|------|-----|------------|
| OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | |
| | 1 | | 1 | | 1 | | 1 | | 1 | ATIR |
| | 1 | | 1 | | 1 | | 1 | | 1 | Output |
| | 0.0 | | 0.0 | | 0.0 | | 0.0 | | 0.0 | AOB |
| | 0.0 | | 0.0 | | 0.0 | | 0.0 | | 0.0 | Chargeable |

III.A.2.a. EXISTING COURSES

SOURCE: USMC **STUDENT CATEGORY:** USMC - AR

| CFY02 | | FY03 | | FY04 | | FY05 | | FY06 | | |
|-------|-----|------|-----|------|-----|------|-----|------|-----|------------|
| OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | |
| 11 | | 11 | | 11 | | 11 | | 11 | | ATIR |
| 11 | | 11 | | 11 | | 11 | | 11 | | Output |
| 0.3 | | 0.3 | | 0.3 | | 0.3 | | 0.3 | | AOB |
| 0.0 | | 0.0 | | 0.0 | | 0.0 | | 0.0 | | Chargeable |

CIN, COURSE TITLE: D-2G-0002, Advanced Formal Ground Training
TRAINING ACTIVITY: Landing Signal Officer School
LOCATION, UIC: NAS Oceana, 68788

SOURCE: NAVY **STUDENT CATEGORY:** ACDU - TAR

| CFY02 | | FY03 | | FY04 | | FY05 | | FY06 | | |
|-------|-----|------|-----|------|-----|------|-----|------|-----|------------|
| OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | |
| 14 | | 14 | | 14 | | 14 | | 14 | | ATIR |
| 14 | | 14 | | 14 | | 14 | | 14 | | Output |
| 0.1 | | 0.1 | | 0.1 | | 0.1 | | 0.1 | | AOB |
| 0.0 | | 0.0 | | 0.0 | | 0.0 | | 0.0 | | Chargeable |

SOURCE: USMC **STUDENT CATEGORY:** USMC - AR

| CFY02 | | FY03 | | FY04 | | FY05 | | FY06 | | |
|-------|-----|------|-----|------|-----|------|-----|------|-----|------------|
| OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | |
| 2 | | 2 | | 2 | | 2 | | 2 | | ATIR |
| 2 | | 2 | | 2 | | 2 | | 2 | | Output |
| 0.0 | | 0.0 | | 0.0 | | 0.0 | | 0.0 | | AOB |
| 0.0 | | 0.0 | | 0.0 | | 0.0 | | 0.0 | | Chargeable |

III.A.2.a. EXISTING COURSES

CIN, COURSE TITLE: D-2G-0003, Fleet Replacement Squadron Training Command
TRAINING ACTIVITY: Landing Signal Officer School
LOCATION, UIC: NAS Oceana, 68788

SOURCE: NAVY **STUDENT CATEGORY:** ACDU - TAR

| CFY02 | | FY03 | | FY04 | | FY05 | | FY06 | | |
|-------|-----|------|-----|------|-----|------|-----|------|-----|------------|
| OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | |
| 11 | | 11 | | 11 | | 11 | | 11 | | ATIR |
| 11 | | 11 | | 11 | | 11 | | 11 | | Output |
| 0.1 | | 0.1 | | 0.1 | | 0.1 | | 0.1 | | AOB |
| 0.0 | | 0.0 | | 0.0 | | 0.0 | | 0.0 | | Chargeable |

SOURCE: NAVY **STUDENT CATEGORY:** SELRES

| CFY02 | | FY03 | | FY04 | | FY05 | | FY06 | | |
|-------|-----|------|-----|------|-----|------|-----|------|-----|------------|
| OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | |
| 0 | | 1 | | 0 | | 1 | | 0 | | ATIR |
| 0 | | 1 | | 0 | | 1 | | 0 | | Output |
| 0.0 | | 0.0 | | 0.0 | | 0.0 | | 0.0 | | AOB |
| 0.0 | | 0.0 | | 0.0 | | 0.0 | | 0.0 | | Chargeable |

CIN, COURSE TITLE: C-604-2011, Aircraft Launch and Recovery Equipment Maintenance Officer
TRAINING ACTIVITY: NATTC DET
LOCATION, UIC: Lakehurst, 63094

SOURCE: NAVY **STUDENT CATEGORY:** ACDU - TAR

| CFY02 | | FY03 | | FY04 | | FY05 | | FY06 | | |
|-------|-----|------|-----|------|-----|------|-----|------|-----|------------|
| OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | |
| 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | ATIR |
| 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | Output |
| 0.3 | 0.3 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | AOB |
| 0.3 | 0.3 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | Chargeable |

CIN, COURSE TITLE: C-222-2012, Carrier Air Traffic Control Operator
TRAINING ACTIVITY: NATTC
LOCATION, UIC: Pensacola, 63093

SOURCE: NAVY **STUDENT CATEGORY:** ACDU - TAR

| CFY02 | | FY03 | | FY04 | | FY05 | | FY06 | | |
|-------|-----|------|-----|------|-----|------|-----|------|-----|------------|
| OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | |
| 96 | | 109 | | 96 | | 96 | | 96 | | ATIR |
| 86 | | 98 | | 86 | | 86 | | 86 | | Output |
| 10.5 | | 11.9 | | 10.5 | | 10.5 | | 10.5 | | AOB |
| 10.5 | | 11.9 | | 10.5 | | 10.5 | | 10.5 | | Chargeable |

III.A.2.a. EXISTING COURSES

CIN, COURSE TITLE: C-222-2019, Amphibious Air Traffic Control Center Operator
TRAINING ACTIVITY: NATTC
LOCATION, UIC: Pensacola, 63093

SOURCE: NAVY **STUDENT CATEGORY:** ACDU - TAR

| CFY02 | | FY03 | | FY04 | | FY05 | | FY06 | | |
|-------|-----|------|-----|------|-----|------|-----|------|-----|------------|
| OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | |
| | 52 | | 52 | | 52 | | 52 | | 52 | ATIR |
| | 47 | | 47 | | 47 | | 47 | | 47 | Output |
| | 5.4 | | 5.4 | | 5.4 | | 5.4 | | 5.4 | AOB |
| | 5.4 | | 5.4 | | 5.4 | | 5.4 | | 5.4 | Chargeable |

CIN, COURSE TITLE: C-604-2017, Aircraft Launch and Recovery Equipment Quality Assurance Administration
TRAINING ACTIVITY: NAMTRAU
LOCATION, UIC: Norfolk, 46680

SOURCE: NAVY **STUDENT CATEGORY:** ACDU - TAR

| CFY02 | | FY03 | | FY04 | | FY05 | | FY06 | | |
|-------|-----|------|-----|------|-----|------|-----|------|-----|------------|
| OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | |
| | 189 | | 205 | | 189 | | 189 | | 189 | ATIR |
| | 180 | | 195 | | 180 | | 180 | | 180 | Output |
| | 2.5 | | 2.7 | | 2.5 | | 2.5 | | 2.5 | AOB |
| | 0.0 | | 0.0 | | 0.0 | | 0.0 | | 0.0 | Chargeable |

TRAINING ACTIVITY: NAMTRAU
LOCATION, UIC: North Island, 39476

SOURCE: NAVY **STUDENT CATEGORY:** ACDU - TAR

| CFY02 | | FY03 | | FY04 | | FY05 | | FY06 | | |
|-------|-----|------|-----|------|-----|------|-----|------|-----|------------|
| OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | |
| | 189 | | 205 | | 189 | | 189 | | 189 | ATIR |
| | 180 | | 195 | | 180 | | 180 | | 180 | Output |
| | 2.5 | | 2.7 | | 2.5 | | 2.5 | | 2.5 | AOB |
| | 0.0 | | 0.0 | | 0.0 | | 0.0 | | 0.0 | Chargeable |

PART IV - TRAINING LOGISTICS SUPPORT REQUIREMENTS

The following elements are not affected by the ADMACS and, therefore, are not included in Part IV of this NTSP:

IV.A. Training Hardware

IV.A.2. Training Devices

IV.B.1. Training Services

IV.C. Facility Requirements

IV.C.1. Facility Requirements Summary (Space/Support) by Activity

IV.C.2. Facility Requirements Detailed by Activity and Course

IV.C.3. Facility Project Summary by Program

IV.A. TRAINING HARDWARE

IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE

CIN, COURSE TITLE: A-191-0011, Integrated Launch and Recovery Television Surveillance System Maintenance

TRAINING ACTIVITY: Service School Command

LOCATION, UIC: Naval Training Center Great Lakes, 30626

| ITEM NO. | EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS | QTY REQD | DATE REQD | GFE CFE | STATUS |
|-------------|--|----------|-----------|---------|---------|
| SPTE | | | | | |
| 208 | Oscilloscope An/USM-425(V)1 | 13 | May 95 | GFE | Onboard |
| 209 | Digital Multimeter 302-68 MOD 126 | 10 | May 95 | GFE | Onboard |
| 210 | Tool Kit 40F60047900 | 1 | May 95 | GFE | Onboard |
| 211 | S-VHS Video Cassette | 80 | May 95 | GFE | Onboard |
| 212 | ECSS Calibration Pole | 1 | May 95 | GFE | Onboard |
| 213 | Extender Board for Data Generator 622902-X | 1 | May 95 | GFE | Onboard |
| 214 | Extender Board for Interface 627310-1 | 1 | May 95 | GFE | Onboard |
| 215 | Extender Board for Cohu DM series Monitors | 5 | May 95 | GFE | Onboard |

CIN, COURSE TITLE: C-604-2013, CV Catapult Electrician

TRAINING ACTIVITY: NATTC DET

LOCATION, UIC: Lakehurst, 63094

| ITEM NO. | EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS | QTY REQD | DATE REQD | GFE CFE | STATUS |
|------------|--|----------|-----------|---------|---------|
| TTE | | | | | |
| 004 | C-13 Catapult MOD1 | 1 | May 95 | GFE | Onboard |
| 005 | MK7 MOD 3 Arresting Gear | 1 | May 95 | GFE | Onboard |
| 025 | Lighted Deck Edge Panel | 1 | May 95 | GFE | Onboard |
| 030 | Pressure Switch | 1 | May 95 | GFE | Onboard |
| 037 | MK7 MOD 0 Auxiliary JDB Control Box | 1 | May 95 | GFE | Onboard |
| 061 | Ground Fault Measuring Device Box Assembly | 1 | May 95 | GFE | Onboard |
| 062 | Weight Assembly Confirmation | 1 | May 95 | GFE | Onboard |

IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE

| | | | | | |
|-----|-----------------------------|---|--------|-----|---------|
| 063 | Light Box Assembly | 1 | May 95 | GFE | Onboard |
| 064 | Electromagnetic Relay | 1 | May 95 | GFE | Onboard |
| 065 | CSV Encoder Shaft | 1 | May 95 | GFE | Onboard |
| 066 | Brake Assembly Motor Unit | 1 | May 95 | GFE | Onboard |
| 067 | Main Pump Push Switch | 1 | May 95 | GFE | Onboard |
| 068 | Timer, Interval Clock | 1 | May 95 | GFE | Onboard |
| 069 | Syncro Transmitter | 1 | May 95 | GFE | Onboard |
| 070 | Limit Switch Assembly | 1 | May 95 | GFE | Onboard |
| 071 | Syncro Receiver Transmitter | 1 | May 95 | GFE | Onboard |
| 072 | Push Switch | 1 | May 95 | GFE | Onboard |
| 073 | JBD Control Box | 1 | May 95 | GFE | Onboard |
| 074 | Auxiliary JBD Control Box | 1 | May 95 | GFE | Onboard |
| 075 | CSV Center Deck Box | 1 | May 95 | GFE | Onboard |

CIN, COURSE TITLE: C-604-2014, Aircraft Launch and Recovery Equipment C13 Catapult Class C1

TRAINING ACTIVITY: NATTC DET

LOCATION, UIC: Lakehurst, 63094

| ITEM NO. | EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS | QTY REQD | DATE REQD | GFE CFE | STATUS |
|-----------------|--|-----------------|------------------|----------------|---------------|
| TTE | | | | | |
| 004 | C-13 Catapult MOD1 | 1 | May 95 | GFE | Onboard |
| 007 | Lock, Valve Assembly | 1 | May 95 | GFE | Onboard |
| 008 | S-3 Tension Bar | 2 | May 95 | GFE | Onboard |
| 009 | Scale Assembly Knot Indicator Ruler | 1 | May 95 | GFE | Onboard |
| 010 | A-6 Tension Bar | 1 | May 95 | GFE | Onboard |
| 011 | Strock Timer Clock | 1 | May 95 | GFE | Onboard |
| 012 | Filtering Disk | 1 | May 95 | GFE | Onboard |
| 013 | Module Assembly with Jet | 1 | May 95 | GFE | Onboard |

IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE

| | | | | | |
|-----|--|---|--------|-----|---------|
| 014 | Steam Plug Mock-Up | 1 | May 95 | GFE | Onboard |
| 015 | Grab Latch, Catapult | 1 | May 95 | GFE | Onboard |
| 016 | Snubber and Rod Assembly | 1 | May 95 | GFE | Onboard |
| 017 | Solenoid, Electrical Lock Valve | 1 | May 95 | GFE | Onboard |
| 018 | A-6 Trail Bar Holdback | 1 | May 95 | GFE | Onboard |
| 019 | Valve Bonnet Assembly | 1 | May 95 | GFE | Onboard |
| 020 | Steam Fluid Valve | 1 | May 95 | GFE | Onboard |
| 021 | Catapult Exhaust Valve with Hydraulic Actuator | 1 | May 95 | GFE | Onboard |
| 022 | Accumulator Assembly | 1 | May 95 | GFE | Onboard |
| 023 | Shuttle Grab Assembly | 1 | May 95 | GFE | Onboard |
| 024 | Engine Assembly, Launching | 1 | May 95 | GFE | Onboard |
| 025 | Lighted Deck Edge Panel | 1 | May 95 | GFE | Onboard |
| 026 | CV 63-65 Maintenance Control Console | 1 | May 95 | GFE | Onboard |
| 027 | Lighted Panel, Deck Edge Catapult | 1 | May 95 | GFE | Onboard |
| 028 | Stroke Valve Launch Timer | 1 | May 95 | GFE | Onboard |
| 029 | Launch Valve Control Piston | 1 | May 95 | GFE | Onboard |
| 030 | Pressure Switch | 1 | May 95 | GFE | Onboard |
| 031 | Water Break Cylinder | 1 | May 95 | GFE | Onboard |
| 032 | Capacity Selection Valve | 1 | May 95 | GFE | Onboard |
| 033 | Launch Valve Assembly | 1 | May 95 | GFE | Onboard |
| 034 | Motorized Operator Valve | 1 | May 95 | GFE | Onboard |
| 035 | Linear Actuating Cylinder, 21 Inch | 1 | May 95 | GFE | Onboard |
| 036 | Digital Endspeed Indicator | 1 | May 95 | GFE | Onboard |
| 037 | MK7 MOD 0 Auxiliary JDB Control Box | 1 | May 95 | GFE | Onboard |
| 038 | Sealing Display Strip | 1 | May 95 | GFE | Onboard |

IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE

| | | | | | |
|-----------|-----------------------------------|---|--------|-----|---------|
| 039 | Portable JBD Control Box | 1 | May 95 | GFE | Onboard |
| 040 | Catapult Launch Cylinder, 9- inch | 1 | May 95 | GFE | Onboard |
| ST | | | | | |
| 300 | Micrometer 192-11V | 1 | May 95 | GFE | Onboard |
| 301 | Micrometer 86091-1 | 1 | May 95 | GFE | Onboard |
| 346 | Eye Bolt A91477-11 | 6 | May 95 | GFE | Onboard |

CIN, COURSE TITLE: C-604-2016, Aircraft Launch and Recovery Refresher
TRAINING ACTIVITY: NAMTRAU
LOCATION, UIC: Norfolk, 46680

| ITEM NO. | EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS | QTY REQD | DATE REQD | GFE CFE | STATUS |
|-----------------|--|-----------------|------------------|----------------|---------------|
| TTE | | | | | |
| 085 | Catapult Control Station Board | 1 | May 90 | GFE | Onboard |
| 086 | Catapult Launch Sequence Device | 1 | May 90 | GFE | Onboard |
| 087 | Catapult Rotary Launch Valve | 1 | May 90 | GFE | Onboard |
| 088 | Catapult Capacity Selector Valve | 1 | May 90 | GFE | Onboard |
| ST | | | | | |
| 374 | Micrometer Outside Caliper | 1 | May 90 | GFE | Onboard |

CIN, COURSE TITLE: C-604-2016, Aircraft Launch and Recovery Refresher
TRAINING ACTIVITY: NAMTRAU
LOCATION, UIC: North Island, 39476

| ITEM NO. | EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS | QTY REQD | DATE REQD | GFE CFE | STATUS |
|-----------------|--|-----------------|------------------|----------------|---------------|
| TTE | | | | | |
| 085 | Catapult Control Station Board | 1 | May 90 | GFE | Onboard |
| 086 | Catapult Launch Sequence Device | 1 | May 90 | GFE | Onboard |
| 087 | Catapult Rotary Launch Valve | 1 | May 90 | GFE | Onboard |
| 088 | Catapult Capacity Selector Valve | 1 | May 90 | GFE | Onboard |
| ST | | | | | |
| 374 | Micrometer Outside Caliper | 1 | May 90 | GFE | Onboard |

IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE

CIN, COURSE TITLE: C-604-2024, Aircraft Launch and Recovery Equipment - Catapult

TRAINING ACTIVITY: NAMTRAU

LOCATION, UIC: Norfolk, 46680

| ITEM NO. | EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS | QTY REQD | DATE REQD | GFE CFE | STATUS |
|-----------------|--|-----------------|------------------|----------------|---------------|
| TTE | | | | | |
| 085 | Catapult Control Station Board | 1 | May 90 | GFE | Onboard |
| 086 | Catapult Launch Sequence Device | 1 | May 90 | GFE | Onboard |
| 087 | Catapult Rotary Launch Valve | 1 | May 90 | GFE | Onboard |
| 088 | Catapult Capacity Selector Valve | 1 | May 90 | GFE | Onboard |
| 089 | Mk 2 Nose Gear Launch Assembly | 1 | May 90 | GFE | Onboard |
| ST | | | | | |
| 374 | Micrometer Outside Caliper | 1 | May 90 | GFE | Onboard |
| 375 | Depth Micrometer | 1 | May 90 | GFE | Onboard |

CIN, COURSE TITLE: C-604-2024, Aircraft Launch and Recovery Equipment - Catapult

TRAINING ACTIVITY: NAMTRAU

LOCATION, UIC: North Island, 39476

| ITEM NO. | EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS | QTY REQD | DATE REQD | GFE CFE | STATUS |
|-----------------|--|-----------------|------------------|----------------|---------------|
| TTE | | | | | |
| 085 | Catapult Control Station Board | 1 | May 90 | GFE | Onboard |
| 086 | Catapult Launch Sequence Device | 1 | May 90 | GFE | Onboard |
| 087 | Catapult Rotary Launch Valve | 1 | May 90 | GFE | Onboard |
| 088 | Catapult Capacity Selector Valve | 1 | May 90 | GFE | Onboard |
| 089 | Mk 2 Nose Gear Launch Assembly | 1 | May 90 | GFE | Onboard |
| ST | | | | | |
| 374 | Micrometer Outside Caliper | 1 | May 90 | GFE | Onboard |
| 375 | Depth Micrometer | 1 | May 90 | GFE | Onboard |

IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE

CIN, COURSE TITLE: C-604-2025, Aircraft Launch and Recovery Equipment Arresting Gear

TRAINING ACTIVITY: NAMTRAU

LOCATION, UIC: Norfolk, 46680

| ITEM NO. | EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS | QTY REQD | DATE REQD | GFE CFE | STATUS |
|-----------------|--|-----------------|------------------|----------------|---------------|
| TTE | | | | | |
| 090 | Wire Rope Pouring Station | 1 | May 90 | GFE | Onboard |
| ST | | | | | |
| 377 | Tube, Strand Spreader | 1 | May 90 | GFE | Onboard |
| 378 | Tube Bender | 1 | May 90 | GFE | Onboard |

CIN, COURSE TITLE: C-604-2025, Aircraft Launch and Recovery Equipment Arresting Gear

TRAINING ACTIVITY: NAMTRAU

LOCATION, UIC: North Island, 39476

| ITEM NO. | EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS | QTY REQD | DATE REQD | GFE CFE | STATUS |
|-----------------|--|-----------------|------------------|----------------|---------------|
| TTE | | | | | |
| 090 | Wire Rope Pouring Station | 1 | May 90 | GFE | Onboard |
| ST | | | | | |
| 377 | Tube, Strand Spreader | 1 | May 90 | GFE | Onboard |
| 378 | Tube Bender | 1 | May 90 | GFE | Onboard |

CIN, COURSE TITLE: C-604-2028, Aircraft Launch And Recovery Equipment Maintenance Technician

TRAINING ACTIVITY: NATTC DET

LOCATION, UIC: Lakehurst, 63094

| ITEM NO. | EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS | QTY REQD | DATE REQD | GFE CFE | STATUS |
|-----------------|--|-----------------|------------------|----------------|---------------|
| TTE | | | | | |
| 023 | Shuttle Grab Assembly | 1 | May 95 | GFE | Onboard |
| 032 | Capacity Selection Valve | 1 | May 95 | GFE | Onboard |
| 033 | Launch Valve Assembly | 1 | May 95 | GFE | Onboard |
| 048 | Control Valve Stem | 1 | May 95 | GFE | Onboard |
| 049 | Control Valve Seat | 1 | May 95 | GFE | Onboard |

IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE

ST

| | | | | | |
|-----|--------------------------------|---|--------|-----|---------|
| 302 | Pouring Cabinet Socket | 1 | May 95 | GFE | Onboard |
| 303 | Portable Air Enricher Chamber | 1 | May 95 | GFE | Onboard |
| 304 | Gas Furnace | 2 | May 95 | GFE | Onboard |
| 305 | Zinc Melting Ladle | 2 | May 95 | GFE | Onboard |
| 306 | Blast Cleaning Cabinet | 1 | May 95 | GFE | Onboard |
| 307 | Hottop Cutter Assembly | 1 | May 95 | GFE | Onboard |
| 308 | Saddle Assembly Clamp Loop | 2 | May 95 | GFE | Onboard |
| 309 | CPV Installing Tool | 3 | May 95 | GFE | Onboard |
| 310 | Launch Valve Table Lift | 1 | May 95 | GFE | Onboard |
| 311 | Cable Clamp Wrench Assembly | 2 | May 95 | GFE | Onboard |
| 312 | Electric Hot Plate | 1 | May 95 | GFE | Onboard |
| 313 | Machinist Vice | 1 | May 95 | GFE | Onboard |
| 314 | Jacking Block Assembly | 1 | May 95 | GFE | Onboard |
| 315 | Pipe Bracket 523009-2 | 1 | May 95 | GFE | Onboard |
| 316 | Pipe Bracket 523009-1 | 1 | May 95 | GFE | Onboard |
| 317 | Socket and Ram Tester Assembly | 1 | May 95 | GFE | Onboard |
| 318 | A Frame Gantry | 1 | May 95 | GFE | Onboard |
| 319 | Special Tool Cart | 1 | May 95 | GFE | Onboard |
| 320 | Ultrasonic Degreaser | 1 | May 95 | GFE | Onboard |
| 321 | Packing Inserter | 1 | May 95 | GFE | Onboard |
| 322 | Segment Depressor | 1 | May 95 | GFE | Onboard |
| 323 | Piston Tool Assembly | 1 | May 95 | GFE | Onboard |
| 324 | Piston Ring Compressor | 1 | May 95 | GFE | Onboard |
| 325 | Cylinder Removal Fixture | 1 | May 95 | GFE | Onboard |
| 326 | Piston Support Spear | 1 | May 95 | GFE | Onboard |

IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE

| | | | | | |
|-----|--|---|--------|-----|---------|
| 327 | Gage, Water Brake | 1 | May 95 | GFE | Onboard |
| 328 | Tension Tool Assembly | 1 | May 95 | GFE | Onboard |
| 329 | Special Piston Rod Wrench | 1 | May 95 | GFE | Onboard |
| 330 | Piston Rod Open End Wrench 514329-2 | 1 | May 95 | GFE | Onboard |
| 331 | Piston Rod Open End Wrench 514239-3 | 1 | May 95 | GFE | Onboard |
| 332 | Piston Bolt Wrench | 1 | May 95 | GFE | Onboard |
| 333 | Spanner Wrench 87124-4 | 1 | May 95 | GFE | Onboard |
| 334 | Spanner Wrench 422091-1 | 1 | May 95 | GFE | Onboard |
| 335 | Choke Ring Wrench | 1 | May 95 | GFE | Onboard |
| 336 | Sheque Grove Gage | 1 | May 95 | GFE | Onboard |
| 337 | Engine Ram Holding Fixture | 2 | May 95 | GFE | Onboard |
| 338 | Insertion Fixture | 1 | May 95 | GFE | Onboard |
| 339 | Cylinder Assembly Support | 1 | May 95 | GFE | Onboard |
| 340 | Spanner Wrench 315414-1 | 1 | May 95 | GFE | Onboard |
| 341 | Piston Removal Kit | 1 | May 95 | GFE | Onboard |
| 342 | Loop Clamp | 2 | May 95 | GFE | Onboard |
| 343 | Sheave Damper Assembly Tool | 1 | May 95 | GFE | Onboard |
| 344 | Special Wrench 423376-1 | 1 | May 95 | GFE | Onboard |
| 345 | Straight Headed Alignment Pin | 2 | May 95 | GFE | Onboard |
| 347 | Shaft Puller | 1 | May 95 | GFE | Onboard |
| 348 | Packing Gland Ejector | 1 | May 95 | GFE | Onboard |
| 349 | Union Nut Wrench 8F2239 | 1 | May 95 | GFE | Onboard |
| 350 | Union Nut Wrench 2B1742 | 1 | May 95 | GFE | Onboard |
| 351 | Weldment Aircraft Launching Bracket 626717-5 | 2 | May 95 | GFE | Onboard |
| 352 | Weldment Aircraft Launching Bracket 626717-1 | 2 | May 95 | GFE | Onboard |

IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE

| | | | | | |
|-----|-------------------------------------|---|--------|-----|---------|
| 353 | Micrometer 0-12 Inch | 2 | May 95 | GFE | Onboard |
| 354 | Tensiometer | 3 | May 95 | GFE | Onboard |
| 355 | Pyrometer 0-1200 Degrees Fahrenheit | 2 | May 95 | GFE | Onboard |
| 356 | Torque Wrench 0-250 Foot Pound | 2 | May 95 | GFE | Onboard |
| 357 | Torque Wrench 0-600 Foot Pound | 2 | May 95 | GFE | Onboard |
| 358 | Torque Wrench 0-1000 Foot Pound | 2 | May 95 | GFE | Onboard |
| 359 | Vernier Caliper | 2 | May 95 | GFE | Onboard |
| 360 | Hydraulic Torque Machine | 1 | May 95 | GFE | Onboard |
| 361 | Caliper Micro Tube Type 1,5-32 Inch | 2 | May 95 | GFE | Onboard |
| 362 | Outside Caliper 0-1 Inch Range | 2 | May 95 | GFE | Onboard |
| 363 | Outside Caliper 1-2 Inch Range | 2 | May 95 | GFE | Onboard |
| 364 | Outside Caliper 2-3 Inch Range | 2 | May 95 | GFE | Onboard |
| 365 | Outside Caliper 3-4 Inch Range | 2 | May 95 | GFE | Onboard |
| 366 | Outside Caliper 4-5 Inch Range | 2 | May 95 | GFE | Onboard |
| 367 | Outside Caliper 5-6 Inch Range | 2 | May 95 | GFE | Onboard |
| 368 | Outside Caliper 7-8 Inch Range | 2 | May 95 | GFE | Onboard |
| 369 | Outside Caliper 8-9 Inch Range | 2 | May 95 | GFE | Onboard |
| 370 | Outside Caliper 9-12 Inch Range | 2 | May 95 | GFE | Onboard |
| 371 | Outside Caliper 12-16 Inch Range | 2 | May 95 | GFE | Onboard |
| 372 | Outside Caliper 16-20 Inch Range | 2 | May 95 | GFE | Onboard |
| 373 | Outside Caliper 20-24 Inch Range | 2 | May 95 | GFE | Onboard |

IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE

CIN, COURSE TITLE: C-604-2029, Aircraft Launch and Recovery Equipment Arresting Gear

TRAINING ACTIVITY: NATTC DET

LOCATION, UIC: Lakehurst, 63094

| ITEM NO. | EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS | QTY REQD | DATE REQD | GFE CFE | STATUS |
|-----------------|--|-----------------|------------------|----------------|---------------|
| TTE | | | | | |
| 005 | MK7 MOD 3 Arresting Gear | 1 | May 95 | GFE | Onboard |
| 041 | Barricade Power Pack | 1 | May 95 | GFE | Onboard |
| 042 | Arresting Gear Barricade | 1 | May 95 | GFE | Onboard |
| 043 | Piston Road Damper Assembly | 2 | May 95 | GFE | Onboard |
| 044 | Cylinder Assembly 607955-1 | 1 | May 95 | GFE | Onboard |
| 045 | Cylinder and Ram Assembly 63094-95-0051 | 1 | May 95 | GFE | Onboard |
| 046 | Cylinder and Ram Assembly | 1 | May 95 | GFE | Onboard |
| 047 | Fluid Cooler Repair Kit Status Board | 1 | May 95 | GFE | Onboard |
| 048 | Control Valve Stem | 1 | May 95 | GFE | Onboard |
| 049 | Control Valve Seat | 1 | May 95 | GFE | Onboard |
| 050 | Special Screw 317310-1 | 1 | May 95 | GFE | Onboard |
| 051 | Valve Stem Sleeve | 1 | May 95 | GFE | Onboard |
| 052 | Valve Cam | 1 | May 95 | GFE | Onboard |
| 053 | Retractable Valve Stem | 1 | May 95 | GFE | Onboard |
| 054 | Retractable Valve Stem Seat | 1 | May 95 | GFE | Onboard |
| 055 | Flapper Control Valve | 1 | May 95 | GFE | Onboard |
| 056 | Shaft Sheave A-497444 | 1 | May 95 | GFE | Onboard |
| 057 | Screw Assembly retractable Sheave | 1 | May 95 | GFE | Onboard |
| 058 | Retractable Sheave Worm Shaft | 1 | May 95 | GFE | Onboard |
| 059 | Retractable Valve Plunger | 1 | May 95 | GFE | Onboard |
| 060 | Strap Assembly 317439-1 | 1 | May 95 | GFE | Onboard |

IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE

CIN, COURSE TITLE: A-670-0064, Vertical/Short Take-Off and Landing Optical Landing System Maintenance

TRAINING ACTIVITY: Service School Command

LOCATION, UIC: Naval Training Center Great Lakes, 30626

| ITEM NO. | EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS | QTY REQD | DATE REQD | GFE CFE | STATUS |
|-----------------|--|-----------------|------------------|----------------|---------------|
| TTE | | | | | |
| 001 | V/STOL Production Unit | 1 | May 95 | GFE | Onboard |
| 081 | Amphibious LSO Workstation | 1 | May 95 | GFE | Pending |
| GPTE | | | | | |
| 100 | CVS/260/6P Multimeter | 10 | May 95 | GFE | Onboard |
| 101 | 89536-8000A/BU AC Voltmeter | 10 | May 95 | GFE | Onboard |
| 102 | AN/USM-425 Oscilloscope | 10 | May 95 | GFE | Onboard |
| SPTE | | | | | |
| 200 | 1313-6A Signal Generator | 10 | May 95 | GFE | Onboard |

CIN, COURSE TITLE: C-670-2010, Optical Landing System Maintenance

TRAINING ACTIVITY: NATTC DET

LOCATION, UIC: Lakehurst, 63094

| ITEM NO. | EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS | QTY REQD | DATE REQD | GFE CFE | STATUS |
|-----------------|--|-----------------|------------------|----------------|---------------|
| TTE | | | | | |
| 006 | CV Configured LSO Workstation | 1 | Jan 00 | GFE | Onboard |
| GPTE | | | | | |
| 103 | FLOLS Cell Tester, NAEC 6182801 Rev. C Assembly | 1 | Apr 90 | GFE | Onboard |
| 104 | Multimeter, Simpson 260 | 2 | Apr 90 | GFE | Onboard |
| 105 | Weston 2261 Dial Thermometer | 1 | Apr 90 | GFE | Onboard |
| 106 | Oscilloscope, Tektronix Model 434 | 1 | Apr 90 | GFE | Onboard |
| 107 | Fluke Model 8012A True RMS DVM | 1 | Apr 90 | GFE | Onboard |
| 108 | Fluke 801-600 Current Probe | 1 | Apr 90 | GFE | Onboard |
| 109 | Gyroscope Breakout Box 619603-1 | 1 | Apr 90 | GFE | Onboard |
| 110 | Cell Tester 618281-1 | 1 | Apr 90 | GFE | Onboard |

IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE

| | | | | | |
|-----|--------------------------------------|---|--------|-----|---------|
| 111 | De-soldering Station Model PRC150A | 1 | Apr 90 | GFE | Onboard |
| 112 | Oscilloscope, F475TA | 1 | Apr 90 | GFE | Onboard |
| 113 | Headset Sound-Powered Type H-200/U | 1 | Apr 90 | GFE | Onboard |
| 114 | Hydraulic Filtration Unit HFB-2K3H-1 | 1 | Apr 90 | GFE | Onboard |

SPTE

| | | | | | |
|-----|--|---|--------|-----|---------|
| 201 | Card Puller 41367-1 | 1 | Apr 90 | GFE | Onboard |
| 202 | Card Puller 424794-1 | 1 | Apr 90 | GFE | Onboard |
| 203 | Sighting Pole 616472-1 | 1 | Apr 90 | GFE | Onboard |
| 204 | Test Simulator NAEC A/E-24-145 | 1 | Apr 90 | GFE | Onboard |
| 205 | Test Set A/E-24T-145 | 1 | Apr 90 | GFE | Onboard |
| 206 | Test Cable Set 621110-1 through 621110-7 | 1 | Apr 90 | GFE | Onboard |
| 207 | Blocking Stand 621559-1 | 1 | Apr 90 | GFE | Onboard |

CIN, COURSE TITLE: D-2G-0001, Initial Formal Ground Training

TRAINING ACTIVITY: Landing Signal Officer School

LOCATION, UIC: NAS Oceana, 68788

| ITEM NO. | EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS | QTY REQD | DATE REQD | GFE CFE | STATUS |
|------------|---|----------|-----------|---------|---------|
| TTE | | | | | |
| 002 | FLOLS MK6 MOD3 | 1 | Jan 00 | GFE | Onboard |
| 003 | LSO HUD Console | 1 | Jan 00 | GFE | Onboard |

CIN, COURSE TITLE: D-2G-0002, Advanced Formal Ground Training

TRAINING ACTIVITY: Landing Signal Officer School

LOCATION, UIC: NAS Oceana, 68788

| ITEM NO. | EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS | QTY REQD | DATE REQD | GFE CFE | STATUS |
|------------|---|----------|-----------|---------|---------|
| TTE | | | | | |
| 002 | FLOLS MK6 MOD3 | 1 | Jan 00 | GFE | Onboard |
| 003 | LSO HUD Console | 1 | Jan 00 | GFE | Onboard |

IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE

CIN, COURSE TITLE: D-2G-0003, Fleet Replacement Squadron Training Command

TRAINING ACTIVITY: Landing Signal Officer School

LOCATION, UIC: NAS Oceana, 68788

| ITEM NO. | EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS | QTY REQD | DATE REQD | GFE CFE | STATUS |
|-----------------|--|-----------------|------------------|----------------|---------------|
| TTE | | | | | |
| 002 | FLOLS MK6 MOD3 | 1 | Jan 00 | GFE | Onboard |
| 003 | LSO HUD Console | 1 | Jan 00 | GFE | Onboard |

CIN, COURSE TITLE: C-604-2011, Aircraft Launch and Recovery Equipment Maintenance Officer

TRAINING ACTIVITY: NATTC DET

LOCATION, UIC: Lakehurst, 63094

| ITEM NO. | EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS | QTY REQD | DATE REQD | GFE CFE | STATUS |
|-----------------|--|-----------------|------------------|----------------|---------------|
| TTE | | | | | |
| 002 | FLOLS MK6 MOD3 | 1 | May 95 | GFE | Onboard |
| 003 | LSO HUD Console | 1 | May 95 | GFE | Onboard |
| 004 | C-13 Catapult MOD1 | 1 | May 95 | GFE | Onboard |
| 005 | MK7 MOD 3 Arresting Gear | 1 | May 95 | GFE | Onboard |
| 006 | CV Configured LSO Workstation | 1 | Jan 00 | GFE | Onboard |

CIN, COURSE TITLE: C-222-2012, Carrier Air Traffic Control Operator

TRAINING ACTIVITY: NATTC

LOCATION, UIC: Pensacola, 63093

| ITEM NO. | EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS | QTY REQD | DATE REQD | GFE CFE | STATUS |
|-----------------|--|-----------------|------------------|----------------|---------------|
| TTE | | | | | |
| 076 | Headset/Chest Set, Electrical | 2 | May 95 | GFE | Onboard |
| 077 | Ships Status Plotting Board | 10 | May 95 | GFE | Onboard |
| 078 | Aircraft Console | 2 | May 95 | GFE | Onboard |
| 079 | Display Unit | 1 | May 95 | GFE | Onboard |

IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE

CIN, COURSE TITLE: C-222-2019, Amphibious Air Traffic Control Center Operator

TRAINING ACTIVITY: NATTC

LOCATION, UIC: Pensacola, 63093

| ITEM NO. | EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS | QTY REQD | DATE REQD | GFE CFE | STATUS |
|-----------------|--|-----------------|------------------|----------------|---------------|
| TTE | | | | | |
| 077 | Ships Status Plotting Board | 5 | May 95 | GFE | Onboard |
| 080 | Headset, Microphone | 24 | May 95 | GFE | Onboard |

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

CIN, COURSE TITLE: A-191-0011, Integrated Launch and Recovery Television Surveillance System Maintenance

TRAINING ACTIVITY: Service School Command

LOCATION, UIC: Naval Training Center Great Lakes, 30626

| TYPES OF MATERIAL OR AID | QTY REQD | DATE REQD | STATUS |
|---------------------------------|---------------------|----------------------|---------------|
| Curriculum Outline | 10 | May 95 | Onboard |
| Instructor Guide | 2 | May 95 | Onboard |
| Lesson Guide | 4 | May 95 | Onboard |
| Student Guide | 30 | May 95 | Onboard |
| Student Test | 30 | May 95 | Onboard |
| Transparencies | 4 Sets | May 95 | Onboard |

CIN, COURSE TITLE: C-604-2013, CV Catapult Electrician

TRAINING ACTIVITY: NATTC DET

LOCATION, UIC: Lakehurst, 63094

| TYPES OF MATERIAL OR AID | QTY REQD | DATE REQD | STATUS |
|--|---------------------|----------------------|---------------|
| Curriculum Outline | 10 | May 95 | Onboard |
| Instructor Guide | 2 | May 95 | Onboard |
| Lesson Guide | 4 | May 95 | Onboard |
| Prefaulted Module Electromagnetic Relay FC400-78 | 1 | May 95 | Onboard |
| Projector Screen | 1 | May 95 | Onboard |
| Still Projector | 1 | May 95 | Onboard |
| Student Guide | 30 | May 95 | Onboard |
| Student Test | 30 | May 95 | Onboard |
| Television | 1 | May 95 | Onboard |
| Transparencies | 2 Sets | May 95 | Onboard |
| Video Cassette Player | 1 | May 95 | Onboard |

CIN, COURSE TITLE: C-604-2014, Aircraft Launch and Recovery Equipment C13 Catapult Class C1

TRAINING ACTIVITY: NATTC DET

LOCATION, UIC: Lakehurst, 63094

| TYPES OF MATERIAL OR AID | QTY REQD | DATE REQD | STATUS |
|---------------------------------|---------------------|----------------------|---------------|
| Curriculum Outline | 10 | May 95 | Onboard |
| Instructor Guide | 2 | May 95 | Onboard |
| Lesson Guide | 4 | May 95 | Onboard |
| Overhead Projector | 2 | May 95 | Onboard |
| Projector Screen | 1 | May 95 | Onboard |
| Student Guide | 30 | May 95 | Onboard |
| Student Test | 30 | May 95 | Onboard |
| Television | 1 | May 95 | Onboard |
| Transparencies | 4 Sets | May 95 | Onboard |
| Video Cassette Recorder | 1 | May 95 | Onboard |
| Video Cassette Player | 1 | May 95 | Onboard |
| Video Monitor | 1 | May 95 | Onboard |

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

CIN, COURSE TITLE: C-604-2016, Aircraft Launch and Recovery Refresher

TRAINING ACTIVITY: NAMTRAU

LOCATION, UIC: Norfolk, 46680

| TYPES OF MATERIAL OR AID | QTY REQD | DATE REQD | STATUS |
|---------------------------------|-----------------|------------------|---------------|
| Curriculum Outline | 20 | May 90 | Onboard |
| Instructor Guide | 2 | May 90 | Onboard |
| Lesson Guide | 20 | May 90 | Onboard |
| Overhead Projector | 1 | May 90 | Onboard |
| Transparencies | 2 sets | May 90 | Onboard |

CIN, COURSE TITLE: C-604-2016, Aircraft Launch and Recovery Refresher

TRAINING ACTIVITY: NAMTRAU

LOCATION, UIC: North Island, 39476

| TYPES OF MATERIAL OR AID | QTY REQD | DATE REQD | STATUS |
|---------------------------------|-----------------|------------------|---------------|
| Curriculum Outline | 20 | May 90 | Onboard |
| Instructor Guide | 2 | May 90 | Onboard |
| Lesson Guide | 20 | May 90 | Onboard |
| Overhead Projector | 1 | May 90 | Onboard |
| Transparencies | 2 sets | May 90 | Onboard |

CIN, COURSE TITLE: C-604-2024, Aircraft Launch and Recovery Equipment - Catapult

TRAINING ACTIVITY: NAMTRAU

LOCATION, UIC: Norfolk, 46680

| TYPES OF MATERIAL OR AID | QTY REQD | DATE REQD | STATUS |
|---------------------------------|-----------------|------------------|---------------|
| Curriculum Outline | 20 | May 90 | Onboard |
| Instructor Guide | 2 | May 90 | Onboard |
| Lesson Guide | 20 | May 90 | Onboard |
| Overhead Projector | 1 | May 90 | Onboard |
| Transparencies | 2 sets | May 90 | Onboard |
| Wall Chart | 4 | May 90 | Onboard |

CIN, COURSE TITLE: C-604-2024, Aircraft Launch and Recovery Equipment - Catapult

TRAINING ACTIVITY: NAMTRAU

LOCATION, UIC: North Island, 39476

| TYPES OF MATERIAL OR AID | QTY REQD | DATE REQD | STATUS |
|---------------------------------|-----------------|------------------|---------------|
| Curriculum Outline | 20 | May 90 | Onboard |
| Instructor Guide | 2 | May 90 | Onboard |
| Lesson Guide | 20 | May 90 | Onboard |
| Overhead Projector | 1 | May 90 | Onboard |
| Transparencies | 2 sets | May 90 | Onboard |
| Wall Chart | 4 | May 90 | Onboard |

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

CIN, COURSE TITLE: C-604-2025, Aircraft Launch and Recovery Equipment Arresting Gear

TRAINING ACTIVITY: NAMTRAU

LOCATION, UIC: Norfolk, 46680

| TYPES OF MATERIAL OR AID | QTY REQD | DATE REQD | STATUS |
|---------------------------------|---------------------|----------------------|---------------|
| Curriculum Outline | 20 | May 90 | Onboard |
| Instructor Guide | 2 | May 90 | Onboard |
| Lesson Guide | 20 | May 90 | Onboard |
| Overhead Projector | 1 | May 90 | Onboard |
| Transparencies | 2 sets | May 90 | Onboard |
| Wall Chart | 4 | May 90 | Onboard |

CIN, COURSE TITLE: C-604-2025, Aircraft Launch and Recovery Equipment Arresting Gear

TRAINING ACTIVITY: NAMTRAU

LOCATION, UIC: North Island, 39476

| TYPES OF MATERIAL OR AID | QTY REQD | DATE REQD | STATUS |
|---------------------------------|---------------------|----------------------|---------------|
| Curriculum Outline | 20 | May 90 | Onboard |
| Instructor Guide | 2 | May 90 | Onboard |
| Lesson Guide | 20 | May 90 | Onboard |
| Overhead Projector | 1 | May 90 | Onboard |
| Transparencies | 2 sets | May 90 | Onboard |
| Wall Chart | 4 | May 90 | Onboard |

CIN, COURSE TITLE: C-604-2028, Aircraft Launch And Recovery Equipment Maintenance Technician

TRAINING ACTIVITY: NATTC DET

LOCATION, UIC: Lakehurst, 63094

| TYPES OF MATERIAL OR AID | QTY REQD | DATE REQD | STATUS |
|---------------------------------|---------------------|----------------------|---------------|
| Curriculum Outline | 10 | May 95 | Onboard |
| Instructor Guide | 2 | May 95 | Onboard |
| Lesson Guide | 4 | May 95 | Onboard |
| Student Guide | 30 | May 95 | Onboard |
| Student Test | 30 | May 95 | Onboard |
| Transparencies | 8 Sets | May 95 | Onboard |

CIN, COURSE TITLE: C-604-2029, Aircraft Launch and Recovery Equipment Arresting Gear

TRAINING ACTIVITY: NATTC DET

LOCATION, UIC: Lakehurst, 63094

| TYPES OF MATERIAL OR AID | QTY REQD | DATE REQD | STATUS |
|---------------------------------|---------------------|----------------------|---------------|
| Curriculum Outline | 10 | May 95 | Onboard |
| Instructor Guide | 2 | May 95 | Onboard |
| Lesson Guide | 4 | May 95 | Onboard |
| Still Projector | 1 | May 95 | Onboard |
| Student Guide | 30 | May 95 | Onboard |
| Student Test | 30 | May 95 | Onboard |
| Television | 1 | May 95 | Onboard |
| Transparencies | 5 Sets | May 95 | Onboard |
| Video Cassette Player | 1 | May 95 | Onboard |

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

CIN, COURSE TITLE: A-670-0064, Vertical/Short Take-Off and Landing Optical Landing System Maintenance

TRAINING ACTIVITY: Service School Command

LOCATION, UIC: Naval Training Center Great Lakes, 30626

| TYPES OF MATERIAL OR AID | QTY | DATE | STATUS |
|--------------------------|--------|--------|---------|
| | REQD | REQD | |
| Curriculum Outline | 10 | May 95 | Onboard |
| Instructor Guide | 2 | May 95 | Onboard |
| Lesson Guide | 4 | May 95 | Onboard |
| Student Guide | 30 | May 95 | Onboard |
| Student Test | 30 | May 95 | Onboard |
| Transparencies | 4 Sets | May 95 | Onboard |

CIN, COURSE TITLE: C-670-2010, Optical Landing System Maintenance

TRAINING ACTIVITY: NATTC DET

LOCATION, UIC: Lakehurst, 63094

| TYPES OF MATERIAL OR AID | QTY | DATE | STATUS |
|--------------------------|------|--------|---------|
| | REQD | REQD | |
| Curriculum Outline | 10 | May 95 | Onboard |
| Instructor Guide | 3 | May 95 | Onboard |
| Lesson Guide | 50 | May 95 | Onboard |
| Student Evaluations | 50 | May 95 | Onboard |
| Student Guide | 30 | May 95 | Onboard |
| Student Test | 50 | May 95 | Onboard |
| Transparencies | 9 | May 95 | Onboard |
| Wall Chart | 6 | May 95 | Onboard |

CIN, COURSE TITLE: D-2G-0001, Initial Formal Ground Training

TRAINING ACTIVITY: Landing Signal Officer School

LOCATION, UIC: NAS Oceana, 68788

| TYPES OF MATERIAL OR AID | QTY | DATE | STATUS |
|--------------------------|------|--------|---------|
| | REQD | REQD | |
| Curriculum Outline | 10 | Jan 00 | Onboard |
| Instructor Guide | 2 | Jan 00 | Onboard |
| Overhead Projector | 1 | Jan 00 | Onboard |

CIN, COURSE TITLE: D-2G-0002, Advanced Formal Ground Training

TRAINING ACTIVITY: Landing Signal Officer School

LOCATION, UIC: NAS Oceana, 68788

| TYPES OF MATERIAL OR AID | QTY | DATE | STATUS |
|--------------------------|------|--------|---------|
| | REQD | REQD | |
| Curriculum Outline | 10 | Jan 00 | Onboard |
| Instructor Guide | 2 | Jan 00 | Onboard |
| Overhead Projector | 1 | Jan 00 | Onboard |

CIN, COURSE TITLE: D-2G-0003, Fleet Replacement Squadron Training Command

TRAINING ACTIVITY: Landing Signal Officer School

LOCATION, UIC: NAS Oceana, 68788

| TYPES OF MATERIAL OR AID | QTY | DATE | STATUS |
|--------------------------|------|--------|---------|
| | REQD | REQD | |
| Curriculum Outline | 10 | Jan 00 | Onboard |
| Instructor Guide | 2 | Jan 00 | Onboard |
| Overhead Projector | 1 | Jan 00 | Onboard |

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

CIN, COURSE TITLE: C-604-2011, Aircraft Launch and Recovery Equipment Maintenance Officer

TRAINING ACTIVITY: NATTC DET

LOCATION, UIC: Lakehurst, 63094

| TYPES OF MATERIAL OR AID | QTY REQD | DATE REQD | STATUS |
|---------------------------------|---------------------|----------------------|---------------|
| Curriculum Outline | 10 | May 95 | Onboard |
| Instructor Guide | 2 | May 95 | Onboard |
| Lesson Guide | 4 | May 95 | Onboard |
| Projector Screen | 1 | May 95 | Onboard |
| Still Projector | 1 | May 95 | Onboard |
| Student Guide | 30 | May 95 | Onboard |
| Student Test | 30 | May 95 | Onboard |
| Transparencies | 6 Sets | May 95 | Onboard |

CIN, COURSE TITLE: C-222-2012, Carrier Air Traffic Control Operator

TRAINING ACTIVITY: NATTC

LOCATION, UIC: Pensacola, 63093

| TYPES OF MATERIAL OR AID | QTY REQD | DATE REQD | STATUS |
|---------------------------------|---------------------|----------------------|---------------|
| Aperture Card Reader | 1 | May 95 | Onboard |
| Curriculum Outline | 10 | May 95 | Onboard |
| Instructor Guide | 2 | May 95 | Onboard |
| Lesson Guide | 4 | May 95 | Onboard |
| Overhead Projector | 1 | May 95 | Onboard |
| Projector Screen | 1 | May 95 | Onboard |
| Student Guide | 30 | May 95 | Onboard |
| Student Test | 30 | May 95 | Onboard |
| Transparencies | 3 Sets | May 95 | Onboard |
| VIDS Board 50 Pocket | 1 | May 95 | Onboard |

CIN, COURSE TITLE: C-222-2019, Amphibious Air Traffic Control Center Operator

TRAINING ACTIVITY: NATTC

LOCATION, UIC: Pensacola, 63093

| TYPES OF MATERIAL OR AID | QTY REQD | DATE REQD | STATUS |
|---------------------------------|---------------------|----------------------|---------------|
| Curriculum Outline | 10 | May 95 | Onboard |
| Flock Cards | Set of 18 | May 95 | Onboard |
| Instructor Guide | 2 | May 95 | Onboard |
| Lesson Guide | 4 | May 95 | Onboard |
| Overhead Projector | 1 | May 95 | Onboard |
| Student Guide | 30 | May 95 | Onboard |
| Student Test | 30 | May 95 | Onboard |
| Television | 1 | May 95 | Onboard |
| Transparencies | 4 Sets | May 95 | Onboard |
| Video Reproducer | 1 | May 95 | Onboard |
| VTS Computer | 1 | May 95 | Onboard |

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

CIN, COURSE TITLE: C-604-2017, Aircraft Launch and Recovery Equipment Quality Assurance Administration

TRAINING ACTIVITY: NAMTRAU

LOCATION, UIC: Norfolk, 46680

| TYPES OF MATERIAL OR AID | QTY | DATE | STATUS |
|---------------------------------|-------------|-------------|---------------|
| | REQD | REQD | |
| Curriculum Outline | 20 | May 90 | Onboard |
| Instructor Guide | 2 | May 90 | Onboard |
| Lesson Guide | 20 | May 90 | Onboard |
| Overhead Projector | 1 | May 90 | Onboard |
| Transparencies | 2 sets | May 90 | Onboard |

CIN, COURSE TITLE: C-604-2017, Aircraft Launch and Recovery Equipment Quality Assurance Administration

TRAINING ACTIVITY: NAMTRAU

LOCATION, UIC: North Island, 39476

| TYPES OF MATERIAL OR AID | QTY | DATE | STATUS |
|---------------------------------|-------------|-------------|---------------|
| | REQD | REQD | |
| Curriculum Outline | 20 | May 90 | Onboard |
| Instructor Guide | 2 | May 90 | Onboard |
| Lesson Guide | 20 | May 90 | Onboard |
| Overhead Projector | 1 | May 90 | Onboard |
| Transparencies | 2 sets | May 90 | Onboard |

IV.B.3. TECHNICAL MANUALS

CIN, COURSE TITLE: A-191-0011, Integrated Launch and Recovery Television Surveillance System Maintenance

TRAINING ACTIVITY: Service School Command

LOCATION, UIC : Naval Training Center Great Lakes, 30626

| TECHNICAL MANUAL NUMBER / TITLE | MEDIUM | QTY REQD | DATE REQD | STATUS |
|--|---------------|-----------------|------------------|---------------|
| NAVAIR 51-60-8-1 ILARTS Operation, Maintenance, and Overhaul with IPB | Hard copy | 4 | May 95 | Onboard |
| NAVAIR 51-60-8-2 ILARTS Low Light Level Television Operation and Maintenance with IPB | Hard copy | 4 | May 95 | Onboard |
| NAVAIR 51-60-8-3 ILARTS Console Control Operation and Maintenance with IPB | Hard copy | 4 | May 95 | Onboard |
| NAVAIR 51-60-8-4 ILARTS Data Generator Operation and Maintenance with IPB | Hard copy | 4 | May 95 | Onboard |
| NAVAIR 51-60-8-5 ILARTS DM Series Monochrome Television Monitor Operation and Maintenance | Hard copy | 4 | May 95 | Onboard |
| NAVAIR 51-60-8-7 RD-453/GQX AVTR Intermediate Maintenance | Hard copy | 4 | May 95 | Onboard |
| NAVAIR 51-60-8-7.1 RD-504/SSQ VCR Intermediate Maintenance | Hard copy | 4 | May 95 | Onboard |
| NAVAIR 51-60-8-8 Airborne Video Tape Recorder Overhaul | Hard copy | 4 | May 95 | Onboard |

CIN, COURSE TITLE: C-604-2013, CV Catapult Electrician

TRAINING ACTIVITY: NATTC DET

LOCATION, UIC : Lakehurst, 63094

| TECHNICAL MANUAL NUMBER / TITLE | MEDIUM | QTY REQD | DATE REQD | STATUS |
|---|---------------|-----------------|------------------|---------------|
| NAVAIR 00-25-100 Technical Publications Library Management | Hard copy | 2 | May 95 | Onboard |
| NAVAIR 51-15ABB-1 MK13 MOD 0 Catapult Operation | Hard copy | 15 | May 95 | Onboard |
| NAVAIR 51-15ABB-2 MK13 MOD 0 Catapult Maintenance and Overhaul | Hard copy | 2 | May 95 | Onboard |

IV.B.3. TECHNICAL MANUALS

| | | | | |
|--|-----------|----|--------|---------|
| NAVAIR 51-15ABB-3 MK13 MOD 0 Catapult IPB | Hard copy | 2 | May 95 | Onboard |
| NAVAIR 51-15ABC-1 Operating Instructions, Catapult Type C MK13, and MK13-1 | Hard copy | 15 | May 95 | Onboard |
| NAVAIR 51-15ABC-2 Maintenance and Overhaul Instructions, Catapults, Type C MK13, and MK13-1 | Hard copy | 2 | May 95 | Onboard |
| NAVAIR 51-15ABC-3 IPB Catapult Type C Mk13, and Type C MK13-1 | Hard copy | 2 | May 95 | Onboard |
| NAVAIR 51-15ABC-4 Forward ICCS Operation and Maintenance with IPB | Hard copy | 2 | May 95 | Onboard |
| NAVAIR 51-15ABC-5 Deck Edge ICCS Operation and Maintenance with IPB | Hard copy | 2 | May 95 | Onboard |
| NAVAIR 51-15ABD-1 Catapult Operation Instructions Type C MK13-1 | Hard copy | 2 | May 95 | Onboard |
| NAVAIR 51-15ABD-2 CVN 68-73 Catapult Operating Instruction | Hard copy | 15 | May 95 | Onboard |
| NAVAIR 51-15ABD-3 IPB for Type C MK13-1 Catapult | Hard copy | 2 | May 95 | Onboard |
| NAVAIR 51-15ABE-1 CSV Operation, Maintenance, and Overhaul with IPB | Hard copy | 2 | May 95 | Onboard |
| NAVAIR 51-15ABE-2 Digital Endspped Indicator Maintenance | Hard copy | 2 | May 95 | Onboard |
| NAVAIR 51-25-19 MK2 Nose Gear Launch Operations, Maintenance, and Overhaul with IPB | Hard copy | 2 | May 95 | Onboard |
| NAVAIR 51-50ABA-2 Visual Landing Aids on Aircraft Carriers | Hard copy | 2 | May 95 | Onboard |
| NAVAIR 51-5BBA-1.1 MK7 MOD 2 Arresting Gear Operation, Maintenance, and Overhaul | Hard copy | 2 | May 95 | Onboard |
| NAVAIR 51-5BBA-1.2 MK7 MOD 2 Arresting Gear IPB | Hard copy | 2 | May 95 | Onboard |

IV.B.3. TECHNICAL MANUALS

| | | | | |
|--|-----------|---|--------|---------|
| NAVAIR 51-5BCA-1.1 MK7 MOD 3 Arresting Gear Operation, Maintenance, and Overhaul | Hard copy | 2 | May 95 | Onboard |
| NAVAIR 51-5BCA-1.2 MK7 MOD 3 Arresting Gear IPB | Hard copy | 2 | May 95 | Onboard |
| NAVAIR 51-70-3 Deflector, Jet Blast, MK7 MOD 0, Operation, Maintenance, and Overhaul with IPB | Hard copy | 2 | May 95 | Onboard |
| NAVAIR51-5-27 MK2 and MK4 Bridle Arrester Maintenance | Hard copy | 2 | May 95 | Onboard |

CIN, COURSE TITLE: C-604-2014, Aircraft Launch and Recovery Equipment C13 Catapult Class C1

TRAINING ACTIVITY: NATTC DET

LOCATION, UIC : Lakehurst, 63094

| TECHNICAL MANUAL NUMBER / TITLE | MEDIUM | QTY REQD | DATE REQD | STATUS |
|--|---------------|-----------------|------------------|---------------|
| NAVAIR 00-25-100 Technical Publications Library Management | Hard copy | 1 | May 95 | Onboard |
| NAVAIR 51-15AAA-1 Type C MK7/11 Catapult Operation | Hard copy | 5 | May 95 | Onboard |
| NAVAIR 51-15AAA-2 Type C MK7/11 Catapult Maintenance and Overhaul | Hard copy | 5 | May 95 | Onboard |
| NAVAIR 51-15AAA-3 Type C MK7/11 Catapult IPB | Hard copy | 5 | May 95 | Onboard |
| NAVAIR 51-15ABB-1 MK13 MOD 0 Catapult Operation | Hard copy | 5 | May 95 | Onboard |
| NAVAIR 51-15ABB-2 MK13 MOD 0 Catapult Maintenance and Overhaul | Hard copy | 5 | May 95 | Onboard |
| NAVAIR 51-15ABB-3 MK13 MOD 0 Catapult IPB | Hard copy | 5 | May 95 | Onboard |
| NAVAIR 51-15ABC-1 Operating Instructions, Catapult Type C MK13, and MK13-1 | Hard copy | 5 | May 95 | Onboard |
| NAVAIR 51-15ABC-2 Maintenance and Overhaul Instructions, Catapults, Type C MK13, and MK13-1 | Hard copy | 5 | May 95 | Onboard |

IV.B.3. TECHNICAL MANUALS

| | | | | |
|--|-----------|---|--------|---------|
| NAVAIR 51-15ABC-3 IPB Catapult Type C Mk13, and Type C MK13-1 | Hard copy | 5 | May 95 | Onboard |
| NAVAIR 51-15ABD-1 Catapult Operation Instructions Type C MK13-1 | Hard copy | 5 | May 95 | Onboard |
| NAVAIR 51-15ABD-2 CVN 68-73 Catapult Operating Instruction | Hard copy | 5 | May 95 | Onboard |
| NAVAIR 51-15ABD-3 IPB for Type C MK13-1 Catapult | Hard copy | 5 | May 95 | Onboard |
| NAVAIR 51-15ABE-1 CSV Operation, Maintenance, and Overhaul with IPB | Hard copy | 5 | May 95 | Onboard |
| NAVAIR 51-5-32 Corrosion Control Handbook for Shipboard Launch and Recovery Systems | Hard copy | 1 | May 95 | Onboard |

CIN, COURSE TITLE: C-604-2016, Aircraft Launch and Recovery Refresher
TRAINING ACTIVITY: NAMTRAU
LOCATION, UIC : Norfolk, 46680

| TECHNICAL MANUAL NUMBER / TITLE | MEDIUM | QTY REQD | DATE REQD | STATUS |
|--|-----------|----------|-----------|---------|
| NAVAIR 51-15ABB-1 MK13 MOD 0 Catapult Operation | Hard copy | 15 | May 90 | Onboard |
| NAVAIR 51-15ABB-2 MK13 MOD 0 Catapult Maintenance and Overhaul | Hard copy | 15 | May 90 | Onboard |
| NAVAIR 51-70-3 Deflector, Jet Blast, MK7 MOD 0, Operation, Maintenance, and Overhaul with IPB | Hard copy | 15 | May 90 | Onboard |

CIN, COURSE TITLE: C-604-2016, Aircraft Launch and Recovery Refresher
TRAINING ACTIVITY: NAMTRAU
LOCATION, UIC : North Island, 39476

| TECHNICAL MANUAL NUMBER / TITLE | MEDIUM | QTY REQD | DATE REQD | STATUS |
|---|-----------|----------|-----------|---------|
| NAVAIR 51-15ABB-1 MK13 MOD 0 Catapult Operation | Hard copy | 15 | May 90 | Onboard |
| NAVAIR 51-15ABB-2 MK13 MOD 0 Catapult Maintenance and Overhaul | Hard copy | 15 | May 90 | Onboard |

IV.B.3. TECHNICAL MANUALS

NAVAIR 51-70-3 Hard copy 15 May 90 Onboard
 Deflector, Jet Blast, MK7 MOD 0, Operation, Maintenance, and Overhaul with IPB

CIN, COURSE TITLE: C-604-2024, Aircraft Launch and Recovery Equipment - Catapult
TRAINING ACTIVITY: NAMTRAU
LOCATION, UIC : Norfolk, 46680

| TECHNICAL MANUAL NUMBER / TITLE | MEDIUM | QTY REQD | DATE REQD | STATUS |
|--|-----------|----------|-----------|---------|
| NAVAIR 51-15ABB-1 MK13 MOD 0 Catapult Operation | Hard copy | 15 | May 90 | Onboard |
| NAVAIR 51-15ABB-2 MK13 MOD 0 Catapult Maintenance and Overhaul | Hard copy | 15 | May 90 | Onboard |
| NAVAIR 51-15ABB-3 MK13 MOD 0 Catapult IPB | Hard copy | 15 | May 90 | Onboard |
| NAVAIR 51-70-3 Deflector, Jet Blast, MK7 MOD 0, Operation, Maintenance, and Overhaul with IPB | Hard copy | 15 | May 90 | Onboard |

CIN, COURSE TITLE: C-604-2024, Aircraft Launch and Recovery Equipment - Catapult
TRAINING ACTIVITY: NAMTRAU
LOCATION, UIC : North Island, 39476

| TECHNICAL MANUAL NUMBER / TITLE | MEDIUM | QTY REQD | DATE REQD | STATUS |
|--|-----------|----------|-----------|---------|
| NAVAIR 51-15ABB-1 MK13 MOD 0 Catapult Operation | Hard copy | 15 | May 90 | Onboard |
| NAVAIR 51-15ABB-2 MK13 MOD 0 Catapult Maintenance and Overhaul | Hard copy | 15 | May 90 | Onboard |
| NAVAIR 51-15ABB-3 MK13 MOD 0 Catapult IPB | Hard copy | 15 | May 90 | Onboard |
| NAVAIR 51-70-3 Deflector, Jet Blast, MK7 MOD 0, Operation, Maintenance, and Overhaul with IPB | Hard copy | 15 | May 90 | Onboard |

IV.B.3. TECHNICAL MANUALS

CIN, COURSE TITLE: C-604-2025, Aircraft Launch and Recovery Equipment Arresting Gear
TRAINING ACTIVITY: NAMTRAU
LOCATION, UIC : Norfolk, 46680

| TECHNICAL MANUAL NUMBER / TITLE | MEDIUM | QTY REQD | DATE REQD | STATUS |
|---|---------------|-----------------|------------------|---------------|
| NAVAIR 51-15ABB-3 MK13 MOD 0 Catapult IPB | Hard copy | 15 | May 90 | Onboard |
| NAVAIR 51-5BBA-1.1 MK7 MOD 2 Arresting Gear Operation, Maintenance, and Overhaul | Hard copy | 10 | May 90 | Onboard |
| NAVAIR 51-5BBA-1.2 MK7 MOD 2 Arresting Gear IPB | Hard copy | 15 | May 95 | Onboard |
| NAVAIR 51-5BCA-1.1 MK7 MOD 3 Arresting Gear Operation, Maintenance, and Overhaul | Hard copy | 10 | May 90 | Onboard |
| NAVAIR 51-5BCA-1.2 MK7 MOD 3 Arresting Gear IPB | Hard copy | 15 | May 90 | Onboard |

CIN, COURSE TITLE: C-604-2025, Aircraft Launch and Recovery Equipment Arresting Gear
TRAINING ACTIVITY: NAMTRAU
LOCATION, UIC : North Island, 39476

| TECHNICAL MANUAL NUMBER / TITLE | MEDIUM | QTY REQD | DATE REQD | STATUS |
|---|---------------|-----------------|------------------|---------------|
| NAVAIR 51-15ABB-3 MK13 MOD 0 Catapult IPB | Hard copy | 15 | May 90 | Onboard |
| NAVAIR 51-5BBA-1.1 MK7 MOD 2 Arresting Gear Operation, Maintenance, and Overhaul | Hard copy | 10 | May 90 | Onboard |
| NAVAIR 51-5BBA-1.2 MK7 MOD 2 Arresting Gear IPB | Hard copy | 15 | May 95 | Onboard |
| NAVAIR 51-5BCA-1.1 MK7 MOD 3 Arresting Gear Operation, Maintenance, and Overhaul | Hard copy | 10 | May 90 | Onboard |
| NAVAIR 51-5BCA-1.2 MK7 MOD 3 Arresting Gear IPB | Hard copy | 15 | May 90 | Onboard |

IV.B.3. TECHNICAL MANUALS

CIN, COURSE TITLE: C-604-2028, Aircraft Launch And Recovery Equipment Maintenance Technician

TRAINING ACTIVITY: NATTC DET

LOCATION, UIC : Lakehurst, 63094

| TECHNICAL MANUAL NUMBER / TITLE | MEDIUM | QTY REQD | DATE REQD | STATUS |
|--|---------------|-----------------|------------------|---------------|
| NAVAIR 00-25-100 Technical Publications Library Management | Hard copy | 1 | May 95 | Onboard |
| NAVAIR 51-15ABB-2 MK13 MOD 0 Catapult Maintenance and Overhaul | Hard copy | 1 | May 95 | Onboard |
| NAVAIR 51-15ABC-1 Operating Instructions, Catapult Type C MK13, and MK13-1 | Hard copy | 1 | May 95 | Onboard |
| NAVAIR 51-15ABC-2 Maintenance and Overhaul Instructions, Catapults, Type C MK13, and MK13-1 | Hard copy | 1 | May 95 | Onboard |
| NAVAIR 51-15ABC-3 IPB Catapult Type C Mk13, and Type C MK13-1 | Hard copy | 1 | May 95 | Onboard |
| NAVAIR 51-15ABD-1 Catapult Operation Instructions Type C MK13-1 | Hard copy | 1 | May 95 | Onboard |
| NAVAIR 51-15ABD-3 IPB for Type C MK13-1 Catapult | Hard copy | 1 | May 95 | Onboard |
| NAVAIR 51-5-32 Corrosion Control Handbook for Shipboard Launch and Recovery Systems | Hard copy | 1 | May 95 | Onboard |
| NAVAIR 51-5BBA-1.1 MK7 MOD 2 Arresting Gear Operation, Maintenance, and Overhaul | Hard copy | 1 | May 95 | Onboard |
| NAVAIR 51-5BBA-1.2 MK7 MOD 2 Arresting Gear IPB | Hard copy | 1 | May 95 | Onboard |
| NAVAIR 51-5BCA-1.2 MK7 MOD 3 Arresting Gear IPB | Hard copy | 1 | May 95 | Onboard |

IV.B.3. TECHNICAL MANUALS

CIN, COURSE TITLE: C-604-2029, Aircraft Launch and Recovery Equipment Arresting Gear
TRAINING ACTIVITY: NATTC DET
LOCATION, UIC : Lakehurst, 63094

| TECHNICAL MANUAL NUMBER / TITLE | MEDIUM | QTY REQD | DATE REQD | STATUS |
|--|-----------|----------|-----------|---------|
| NAVAIR 00-80T-105 Aircraft Carrier NATOPS Manual | Hard copy | 1 | May 95 | Onboard |
| NAVAIR 51-5-32 Corrosion Control Handbook for Shipboard Launch and Recovery Systems | Hard copy | 1 | May 95 | Onboard |
| NAVAIR 51-5BBA-1.1 MK7 MOD 2 Arresting Gear Operation, Maintenance, and Overhaul | Hard copy | 5 | May 95 | Onboard |
| NAVAIR 51-5BBA-1.2 MK7 MOD 2 Arresting Gear IPB | Hard copy | 5 | May 95 | Onboard |
| NAVAIR 51-5BCA-1.1 MK7 MOD 3 Arresting Gear Operation, Maintenance, and Overhaul | Hard copy | 5 | May 95 | Onboard |
| NAVAIR 51-5BCA-1.2 MK7 MOD 3 Arresting Gear IPB | Hard copy | 5 | May 95 | Onboard |

CIN, COURSE TITLE: A-670-0064, Vertical/Short Take-Off and Landing Optical Landing System Maintenance
TRAINING ACTIVITY: Service School Command
LOCATION, UIC : Naval Training Center Great Lakes, 30626

| TECHNICAL MANUAL NUMBER / TITLE | MEDIUM | QTY REQD | DATE REQD | STATUS |
|---|-----------|----------|-----------|---------|
| NAVAIR 51-60-14 V/STOL OLS Maintenance Manual | Hard copy | 30 | May 95 | Onboard |
| NAVAIR 51-60-14 V/STOL OLS Shipboard Operations Manual | Hard copy | 30 | May 95 | Onboard |

CIN, COURSE TITLE: C-670-2010, Optical Landing System Maintenance
TRAINING ACTIVITY: NATTC DET
LOCATION, UIC : Lakehurst, 63094

| TECHNICAL MANUAL NUMBER / TITLE | MEDIUM | QTY REQD | DATE REQD | STATUS |
|--|-----------|----------|-----------|---------|
| 34922-RSL-49 Maintenance Requirements Cards and Maintenance Index Page for the MK-6 MOD 3 Fresnel Lens Optical Landing System | Hard copy | 1 | Mar 99 | Onboard |

IV.B.3. TECHNICAL MANUALS

| | | | | |
|--|-----------|---|--------|---------|
| NAVAIR 51-40-ACA-2 Manually Operated Visual Landing Aid System Installation, Operation, and Maintenance Instruction with IPB | Hard copy | 4 | Mar 99 | Onboard |
| NAVAIR 51-40ABA-10 Fresnel Lens Optical Landing System MK-6 MOD 3 Installation, Service, Operation and Maintenance Manual | Hard copy | 4 | Apr 99 | Onboard |
| NAVAIR 51-40ABA-21 Improved Fresnel Lens Optical Landing System Operation and Maintenance Manual with IPB | Hard copy | 4 | Mar 01 | Pending |
| NAVAIR 51-40BA-11 Illustrated Parts Breakdown for the MK-6 MOD 3 Fresnel Lens Optical Landing System | Hard copy | 4 | Mar 99 | Onboard |
| NAVAIR 51-60-9 Landing Signal Officer Heads-Up Display Console System MK-1 MOD 0 Installation, Operation, and Maintenance Instruction | Hard copy | 4 | Mar 99 | Onboard |
| NAVAIR 51-60-9.1 MK-1 MOD 0 Console System IPB | Hard copy | 1 | Mar 99 | Onboard |
| NAVAIR 51-ABA-6 Long Range Line-UP Operation and Maintenance Manual with IPB | Hard copy | 4 | Mar 99 | Onboard |

CIN, COURSE TITLE: C-604-2011, Aircraft Launch and Recovery Equipment Maintenance Officer

TRAINING ACTIVITY: NATTC DET

LOCATION, UIC : Lakehurst, 63094

| TECHNICAL MANUAL NUMBER / TITLE | MEDIUM | QTY REQD | DATE REQD | STATUS |
|---|-----------|----------|-----------|---------|
| NAVAIR 00-25-100 Technical Publications Library Management | Hard copy | 1 | May 95 | Onboard |
| NAVAIR 00-80R-14-1 NATOPS Aircraft Emergency Rescue Information Manual | Hard copy | 1 | May 95 | Onboard |
| NAVAIR 51-15AAA-1 Type C MK7/11 Catapult Operation | Hard copy | 5 | May 95 | Onboard |
| NAVAIR 51-15AAA-2 Type C MK7/11 Catapult Maintenance and Overhaul | Hard copy | 5 | May 95 | Onboard |
| NAVAIR 51-15AAA-3 Type C MK7/11 Catapult IPB | Hard copy | 5 | May 95 | Onboard |

IV.B.3. TECHNICAL MANUALS

| | | | | |
|--|-----------|---|--------|---------|
| NAVAIR 51-15ABB-1 MK13 MOD 0 Catapult Operation | Hard copy | 5 | May 95 | Onboard |
| NAVAIR 51-15ABB-2 MK13 MOD 0 Catapult Maintenance and Overhaul | Hard copy | 5 | May 95 | Onboard |
| NAVAIR 51-15ABB-3 MK13 MOD 0 Catapult IPB | Hard copy | 5 | May 95 | Onboard |
| NAVAIR 51-15ABC-1 Operating Instructions, Catapult Type C MK13, and MK13-1 | Hard copy | 5 | May 95 | Onboard |
| NAVAIR 51-15ABC-2 Maintenance and Overhaul Instructions, Catapults, Type C MK13, and MK13-1 | Hard copy | 5 | May 95 | Onboard |
| NAVAIR 51-15ABC-3 IPB Catapult Type C Mk13, and Type C MK13-1 | Hard copy | 5 | May 95 | Onboard |
| NAVAIR 51-15ABD-1 Catapult Operation Instructions Type C MK13-1 | Hard copy | 5 | May 95 | Onboard |
| NAVAIR 51-15ABD-3 IPB for Type C MK13-1 Catapult | Hard copy | 5 | May 95 | Onboard |
| NAVAIR 51-25-501 Catapult Vickers Pump Manual | Hard copy | 5 | May 95 | Onboard |
| NAVAIR 51-40-8-1 Low Light Level Television System Operation, Maintenance, and Overhaul Manual with IPB | Hard copy | 1 | May 95 | Onboard |
| NAVAIR 51-40-ACA-2 Manually Operated Visual Landing Aid System Installation, Operation and Maintenance Instruction with IPB | Hard copy | 5 | May 95 | Onboard |
| NAVAIR 51-40ABA-10 Fresnel Lens Optical Landing System MK-6 MOD 3 Installation, Service, Operation and Maintenance Manual | Hard copy | 2 | May 95 | Onboard |
| NAVAIR 51-5-32 Corrosion Control Handbook for Shipboard Launch and Recovery Systems | Hard copy | 1 | May 95 | Onboard |
| NAVAIR 51-50ABA-2 Visual Landing Aids on Aircraft Carriers | Hard copy | 2 | May 95 | Onboard |

IV.B.3. TECHNICAL MANUALS

| | | | | |
|--|-----------|---|--------|---------|
| NAVAIR 51-60-8-1 ILARTS Operation, Maintenance, and Overhaul with IPB | Hard copy | 1 | May 95 | Onboard |
| NAVAIR 51-60-9 MK1 MOD 0 LSO HUD Maintenance and Overhaul Manual with IPB | Hard copy | 1 | May 95 | Onboard |
| NAVAIR 51-70-3 Deflector, Jet Blast, MK7 MOD 0, Operation, Maintenance, and Overhaul with IPB | Hard copy | 5 | May 95 | Onboard |
| NAVAIR 51-70-5 Deflector, Jet Blast, MK6 MOD 0, Operator, Maintenance, and Overhaul with IPB | Hard copy | 5 | May 95 | Onboard |

CIN, COURSE TITLE: C-222-2012, Carrier Air Traffic Control Operator

TRAINING ACTIVITY: NATTC

LOCATION, UIC : Pensacola, 63093

| TECHNICAL MANUAL NUMBER / TITLE | MEDIUM | QTY REQD | DATE REQD | STATUS |
|--|---------------|-----------------|------------------|---------------|
| EE216-SV-MMF-020/SPN46 (V) ACL Support Volume for AN/SPN-46 (V) ACLS | Hard copy | 1 | May 95 | Onboard |
| NAVAIR 00-80T-105 Aircraft Carrier NATOPS Manual | Hard copy | 60 | May 95 | Onboard |
| NAVAIR 00-80T-114 NATOPS Air Traffic Control Facilities Manual | Hard copy | 1 | May 95 | Onboard |
| NAVAIR 00-80V-49 Air Navigation | Hard copy | 1 | May 95 | Onboard |
| NAVAIR 16-60SPN43C-1-1 AN/SPN-43C Operation and Maintenance | Hard copy | 1 | May 95 | Onboard |
| NAVAIR 51-50AAA-1 VLA Flight Deck Lighting | Hard copy | 1 | May 95 | Onboard |
| NAVAIR AE-CVATC-OPM-000 Carrier Air Traffic Control Handbook | Hard copy | 60 | May 95 | Onboard |
| NAWCAD No. 4.5.8.1-104 AN/SPN-46 ACLS Console Operating Procedures | Hard copy | 1 | May 95 | Onboard |
| NESEA EE230-DD-OPI-010/E120 CATCC DAIR AN/TPX-42A (V) 8 Operations Manual Version 005 | Hard copy | 1 | May 95 | Onboard |

IV.B.3. TECHNICAL MANUALS

CIN, COURSE TITLE: C-222-2019, Amphibious Air Traffic Control Center Operator
TRAINING ACTIVITY: NATTC
LOCATION, UIC : Pensacola, 63093

| TECHNICAL MANUAL NUMBER / TITLE | MEDIUM | QTY REQD | DATE REQD | STATUS |
|---|---------------|-----------------|------------------|---------------|
| HOSTAC Appendix 2D Helicopter Operating Procedures from Ships Other Than Aircraft Carriers | Hard copy | 1 | May 95 | Onboard |
| Joint Publication 3-02 Joint Doctrine for Amphibious Operations | Hard copy | 1 | May 95 | Onboard |
| Joint Publication 3.02.2 Ship-To-Shore Movement | Hard copy | 1 | May 95 | Onboard |
| NAVAIR 00-80T-106 LHA/LHD/MCS NATOPS Manual | Hard copy | 30 | May 95 | Onboard |
| NAVAIR 00-80T-114 NATOPS Air Traffic Control Facilities Manual | Hard copy | 1 | May 95 | Onboard |
| NWP 3-04.1M Helicopter Operating Procedures for Air Capable Ships | Hard copy | 1 | May 95 | Onboard |
| NWP 3-09.11M Supporting Arms in Amphibious Operations | Hard copy | 1 | May 95 | Onboard |

CIN, COURSE TITLE: C-604-2017, Aircraft Launch and Recovery Equipment Quality Assurance Administration
TRAINING ACTIVITY: NAMTRAU
LOCATION, UIC : Norfolk, 46680

| TECHNICAL MANUAL NUMBER / TITLE | MEDIUM | QTY REQD | DATE REQD | STATUS |
|--|---------------|-----------------|------------------|---------------|
| NAVAIR 51-15ABB-2 MK13 MOD 0 Catapult Maintenance and Overhaul | Hard copy | 5 | May 90 | Onboard |
| NAVAIR 51-5BBA-1.1 MK7 MOD 2 Arresting Gear Operation, Maintenance, and Overhaul | Hard copy | 10 | May 90 | Onboard |
| NAVAIR 51-5BCA-1.1 MK7 MOD 3 Arresting Gear Operation, Maintenance, and Overhaul | Hard copy | 10 | May 90 | Onboard |
| NAVAIR 51-70-3 Deflector, Jet Blast, MK7 MOD 0, Operation, Maintenance, and Overhaul with IPB | Hard copy | 15 | May 90 | Onboard |

IV.B.3. TECHNICAL MANUALS

CIN, COURSE TITLE: C-604-2017, Aircraft Launch and Recovery Equipment Quality Assurance Administration

TRAINING ACTIVITY: NAMTRAU

LOCATION, UIC : North Island, 39476

| TECHNICAL MANUAL NUMBER / TITLE | MEDIUM | QTY REQD | DATE REQD | STATUS |
|--|---------------|---------------------|----------------------|---------------|
| NAVAIR 51-15ABB-2 MK13 MOD 0 Catapult Maintenance and Overhaul | Hard copy | 5 | May 90 | Onboard |
| NAVAIR 51-5BBA-1.1 MK7 MOD 2 Arresting Gear Operation, Maintenance, and Overhaul | Hard copy | 10 | May 90 | Onboard |
| NAVAIR 51-5BCA-1.1 MK7 MOD 3 Arresting Gear Operation, Maintenance, and Overhaul | Hard copy | 10 | May 90 | Onboard |
| NAVAIR 51-70-3 Deflector, Jet Blast, MK7 MOD 0, Operation, Maintenance, and Overhaul with IPB | Hard copy | 15 | May 90 | Onboard |

PART V - MPT MILESTONES

| COG CODE | MPT MILESTONES | DATE | STATUS |
|-----------------|---|-------------|---------------|
| PDA | Installed MAPA-C Feasibility Model | FY95 | Completed |
| PDA | Completed Advanced Development Model for ISIS | FY97 | Completed |
| PDA | Completed ADMACS and ISIS OPEVAL | FY98 | Completed |
| TSA | Developed ADMACS Initial NTSP | Jun 99 | Completed |
| TSA | Developed ALRCS Initial NTSP | Sep 99 | Completed |
| OPO | Obtained Type Commanders Funded Commitment for MAPA-C | FY99 | Completed |
| PDA | Achieved Approval for ALRCS Milestone I | FY99 | Completed |
| PDA | Conducted VISUAL DT I | FY99 | Completed |
| TSA | Developed VISUAL Initial NTSP | Feb 00 | Completed |
| PDA | Achieved Approval for ADMACS Milestone III | FY00 | Completed |
| PDA | Achieved Approval for VISUAL Milestone II | FY00 | Completed |
| TSA | Developed ADMACS Draft NTSP | Nov 00 | Completed |
| TSA | Distributed ADMACS Draft NTSP for Review | Jan 01 | Completed |
| TSA | Conducted NTSP Conference | Nov 01 | Completed |
| TSA | Updated ADMACS Draft NTSP | Nov 01 | Completed |
| TSA | Developed ADMACS Proposed NTSP | Jan 02 | Completed |
| TSA | Forwarded ADMACS Proposed NTSP to OPNAV | Feb 02 | Completed |
| PDA | Begin VISUAL DT IIC | Jun 02 | Pending |
| TSA | Submitted Approval NTSP | Mar 02 | Completed |
| TSA | Achieve ADMACS and ISIS MSD | Jun 02 | Pending |
| PDA | Complete MAPA-C Fleet CV and CVN Installations | FY03 | Pending |
| PDA | Complete ADMACS and ISIS Fleet CV and CVN Installations | FY03 | Pending |
| PDA | Conduct VISUAL OPEVAL | FY03 | Pending |
| PDA | Begin VISUAL Fleet Installations | FY06 | Pending |
| PDA | Achieve VISUAL MSD | FY06 | Pending |

PART VI - ACTION ITEMS/ACTION REQUIRED

The following action items are outstanding from the ADMACS NTSP Conference held at NAWCADLKE on November 5, 2001:

Action Item Number: NTSPC-001
Subject: ADMACS Manpower Issues
Originator: ACCM(AW/SW) Mike Holder
Organization: NAVAIRSYSCOM PMA205-3B1

Deficiency: Draft ADMACS NTSP states that "no additional manpower will be required to support ADMACS or ISIS". Fleet has expressed concern that there are a growing number of "stovepipe" systems that are being procured and deployed under the premise that there is no increase in manpower due to nominal increases in system specific maintenance tasks. Without identifying partial-man requirements the cumulative effect of this action is a continued increase in workload to an already over-burdened ship's work force.

Recommended Resolution: Document partial-man requirements for the ADMACS/ISIS. Identify ADMACS/ISIS preventive and corrective maintenance tasks and incorporate data into ADMACS NTSP.

Comments/Resolution: NAWCADLKE to release Naval message to Type Commanders NLT 15 November 2001 requesting Fleet maintenance data on ADMACS/ISIS. TYCOMS to provide maintenance data to NAWCADLKE for review NLT 15 December 2001.

Status: NAWCADLKE sent naval message R 131526Z NOV 01 ZYB to all concerned on 14 November.

Action Item Number: NTSPC-002
Subject: ADMACS/ISIS Maintenance Training
Originator: ACCM(AW/SW) Mike Holder
Organization: NAVAIRSYSCOM PMA205-3B1

Deficiency: (1) NTSP states that "ADMACS/ISIS hardware maintenance will be performed by shipboard Electronics Technicians (ET) with NEC 1677." NEC ET 1677 Course of Instruction (COI) does not adequately address ADMACS router and server maintenance. (2) NEC 1677 COI does not address ISIS unique hardware/software maintenance. There is a potential requirement for ISIS unique follow-on maintenance training.

Recommended Resolution: Per BUPERS MSG R 261540 SEP 01 the Navy has implemented NEC ET 1678 by establishing the Information Systems Maintainer (ISM) COI (A-150-2300). This new NEC will eventually phase out NEC ET 1677. New ET 1678 COI is believed to adequately address prior ADMACS router and server training shortfalls. NAWCADLKE currently provides one week of ISIS pre-deployment hardware/software maintenance training. CNET to review ET-1678 and ISIS maintenance courses and provide recommendations addressing any training shortfalls.

Comments/Resolution: NAWCADLKE to provide ISIS curriculum to CNET for review NLT 15 November 2001. CNET to provide recommendations on ADMACS/ISIS, training shortfalls NLT 15 December 2001.

Status: NAWCADLKE provided a detailed outline to CNET on 27 November. CNET provided initial curriculum analysis to NAWCADLKE on 14 December and advised that further collaboration between CNET and NAWCADLKE Subject Matter Experts (SME) is required.

PART VI - ACTION ITEMS/ACTION REQUIRED

Action Item Number: NTSPC-003
Subject: ADMACS/ISIS Operator Training/Technical Support
Originator: ACCM(AW/SW) Mike Holder
Organization: NAVAIRSYSCOM PMA205-3B1

Deficiency: NTSP states that follow-on operator training for ADMACS/ISIS manual data input operators not within the AC rating will be satisfied through On-the-Job Training (OJT). This training is currently provided by (1) sending ships personnel through ISIS training at NATTC Pensacola, Florida (C-222-2012) or (2) OJT onboard ship during installation. TYCOMs have expressed concern regarding out-year plans to provide this training and technical support.

Recommended Resolution: NAWCADLKE to validate current plan of utilizing ADMACS CAFSU SME personnel to perform ADMACS/ISIS operator training and technical support. NAWCADLKE to confirm that adequate resources are identified, programmed, and budgeted for in out-year fiscal plans to address this requirement. Incorporate plan into ADMACS NTSP.

Status: Currently NAWCADLKE would like to state in the NTSP that a "NAVAIR Lakehurst SME" would perform the training. This phrase will cover both a CAFSU and an engineer. When we are able to get more information as a result of action item 002 above, we can more easily determine just how much of this training we are going to need to continue. Then we can determine exactly who (engineer or CAFSU) and the resources programmed and budgeted for this person(s).

PART VII - POINTS OF CONTACT

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| <p>Mr. Douglas McCombie AWIMS/MAPA-C System Engineer NAWCADLKE, 4.8.2.6 mccombieda@navair.navy.mil</p> | <p>COMM: (732) 323-4292 DSN: 642-4292 FAX: (732)-323-1661</p> |
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| Mr. Bill Loucks NTSP Author MAGA, Inc. loucksb@us.hsnet.net | COMM: (301) 737-3500 DSN: NA FAX: (301) 737-6442 |
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| Mr. Bob Kresge NTSP Manager NAVAIRSYSCOM, AIR 3.4.1 kresgerj@navair.navy.mil | COMM: (301) 757-1844 DSN: 757-1844 FAX: (301) 342-7737 |
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